

**TDMS No.** 99028 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

bis(2-Chloroethoxy)methane

**CAS Number:** 111-91-1

**Date Report Reqsted:** 11/12/2007  
**Time Report Reqsted:** 14:57:37  
**First Dose M/F:** 09/16/02 / 09/17/02  
**Lab:** BAT

F1\_R2

**C Number:** C99028  
**Lock Date:** 07/12/2005  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**TDMSE Version:** 1.9.1























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DAY ON TEST	0 0																								* TOTALS	
	7	6	7	7	5	6	6	7	4	6	7	7	7	7	7	6	6	7	6	6	6	7	6	6		
2	9	3	2	3	9	6	2	4	5	2	3	2	2	2	2	8	7	3	9	9	8	3	6	2		
4	1	0	9	3	1	9	9	1	5	9	0	9	9	9	9	7	7	0	1	2	4	0	1	0		
<hr/>																										
FISCHER 344 RATS MALE 0 MG/KG	ANIMAL ID																									
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	
6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0		
Ulcer																								3	1 3.0	

**CARDIOVASCULAR SYSTEM**

Blood Vessel	+ +																								50
Heart	+ +																								50
Cardiomyopathy	2	2	2	2	1		1	1		1	2	2	1	3	2	2	1	1	1	2	2	2	1	1	46 1.7
Fibrosis	2	2	2	2	2	1	1	2	1	2	2	2	1	2	2	2	3	1	2	2	2	2	2	2	50 1.9
Inflammation, Chronic Active																									1 2.0
Thrombosis																									3 2.3
Endothelium, Hyperplasia																									1 2.0
Myocardium, Infiltration Cellular, Mononuclear Cell	2	2	2	2	2	1	1	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	50 1.9
Myocardium, Necrosis	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50 1.0
Myocardium, Vacuolization Cytoplasmic	2	2	2	2	2	1	1	2	1	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	50 1.9

**ENDOCRINE SYSTEM**

Adrenal Cortex	+ +																								50
Atrophy																									1 3.0
Hyperplasia																									16 1.5
Vacuolization Cytoplasmic	1		1		1		1	1		2		1	1	2		2	2	2	1	2	1	2	1	33 1.3	
Adrenal Medulla	+ +																								50
Hemorrhage																									1 3.0
Hyperplasia																									9 1.8

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	7	7	7	5	7	6	7	7	6	5	6	6	7	4	7	7	3	5	6	7	7	7	7	5
	8	2	3	2	0	2	5	2	2	1	0	3	7	3	4	3	3	8	8	7	2	2	3	2	2
	4	9	0	9	2	9	4	9	9	7	5	1	0	0	2	0	0	6	6	0	9	9	0	9	6
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>75 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

males  
(cont...)

Peripheral Nerve

+

Spinal Cord

+

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Congestion																		2							
Inflammation	2		1	1	2				1				1								1	1	1		
Alveolar Epithelium, Hyperplasia	3				1				1						2	1							1		
Artery, Hyperplasia																									
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Foreign Body			X	X			X						X	X								X			
Inflammation	2	2	2	1		2		2	2				2	2	1							1	2		
Glands, Cyst											2														
Olfactory Epithelium, Accumulation, Hyaline Droplet														3			3								
Olfactory Epithelium, Degeneration			1	1				3	1	1				3					1			1			1
Olfactory Epithelium, Metaplasia, Respiratory					1		1			1								3							
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

**SPECIAL SENSES SYSTEM**

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	DAY ON TEST																								* TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>75 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	
Clear Cell Focus	X				X		X		X		X	X	X		X	X		X	X	X	X	X		24	
Degeneration, Cystic							1											2						5 1.4	
Eosinophilic Focus					X	X	X	X				X						X		X	X	X		15	
Fatty Change	1	2		1		1							2	2		2	1		1	1		2	2	20 1.6	
Fibrosis				2	1	1	1				1			1	1	2		1		1	1		1	25 1.3	
Hepatodiaphragmatic Nodule			X															X				X		5	
Inflammation	1	1	1	1	1	1	1	1	1			1	1		1	2	1		1	1	1	1	1	38 1.0	
Mixed Cell Focus							X				X	X		X	X			X					X	10	
Necrosis										2														2 1.5	
Bile Duct, Cyst																								1 1.0	
Bile Duct, Hyperplasia		1	1	2	1	2	2	2	2	3	2	1	2	1	2	3	2	3	2		2	1		46 1.9	
Centrilobular, Necrosis																								4 2.0	
Mesentery						+	+	+							+	+				+				10	
Fat, Necrosis						2	3	2								2					1			9 2.2	
Pancreas																								50	
Acinus, Atrophy	1		1	1	1	1	2		2	2	2		2					2	2	1			1	21 1.6	
Acinus, Hyperplasia																								1 2.0	
Duct, Cyst	2																			1				5 1.8	
Salivary Glands																								50	
Stomach, Forestomach																								50	
Inflammation																						4		2 3.5	
Ulcer																						4		2 3.5	
Epithelium, Hyperplasia																								1 3.0	
Stomach, Glandular																								50	

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DAY ON TEST	ANIMAL ID																								* TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	3	7	6	7	6	7	7	7	7	7	7	6	6	7	6	7	7	7	7	7	7	7	4	7	
3	5	3	7	3	5	3	2	3	0	2	2	7	5	3	4	1	3	3	2	2	3	3	7	3	
0	1	0	3	0	4	0	9	0	8	9	9	0	6	0	5	6	0	0	9	9	0	0	8	0	
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>75 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	0	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cataract																									1 3.0
Retina, Atrophy																									1 3.0
Sclera, Metaplasia, Osseous			2	2		2	2	2	1	1	2	2	1	2	2	2	2	1					2	1	35 1.6
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hyperplasia																									1 1.0
Inflammation														1								1			3 1.0

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Infarct																									1 2.0	
Nephropathy	2	1	2	1	2	1	2	4	4	2	2	2	1	2	1	1	2	2	1	2	2	2	3	1	3	48 1.9
Renal Tubule, Cyst							2																		1 2.0	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Muscularis, Mineralization																									1 1.0	

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DAY ON TEST	0 0																								
	7	6	7	6	6	3	4	6	6	7	7	7	7	7	6	6	6	7	5	7	5	5	6	5	
	3	3	0	1	4	7	5	3	0	3	1	2	0	2	2	4	7	8	2	5	3	9	5	5	1
	0	1	4	0	3	1	3	1	4	0	9	9	4	9	4	1	0	2	9	8	0	6	4	4	2
<b>FISCHER 344 RATS MALE</b> <b>150 MG/KG</b>	ANIMAL ID																								
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2
1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

**males (cont...)**

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parasite Metazoan	2											2				2								
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis											1		1											
Basophilic Focus			X		X						X	X	X	X		X					X			
Clear Cell Focus	X										X		X								X			
Degeneration, Cystic		2	1		1				2		1								1	1				
Eosinophilic Focus											X		X							X				
Fatty Change					1			2	2		2	1	2	2					2					1
Fibrosis	1		1	1				1	2	2	1			1				2					1	
Hepatodiaphragmatic Nodule	X																							X
Inflammation			1	1	1		1	1			1	1	1	1		1			1	1				1

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	7	6	7	6	6	3	4	6	6	7	7	7	7	7	6	6	6	7	5	7	5	5	6	5	
	3	3	0	1	4	7	5	3	0	3	1	2	0	2	2	4	7	8	2	5	3	9	5	5	1
	0	1	4	0	3	1	3	1	4	0	9	9	4	9	4	1	0	2	9	8	0	6	4	4	2
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>150 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

males (cont...)

Mixed Cell Focus			X				X						X	X				X	X							
Necrosis						2		2						1												
Thrombosis																		3								
Bile Duct, Hyperplasia	2		1	1	2	2	1	2	2	3	3	2	2	2	1	2	1	2	3		1	2	2	1	1	
Centrilobular, Necrosis								2							1								1			
Mesentery										+	+	+		+				+					+			
Fat, Necrosis											3	2		3				3					3			
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Acinus, Atrophy							2			3							2		2	2		1	2		1	
Acinus, Hyperplasia																1										
Duct, Cyst																	2									
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation		4								3																
Ulcer		4																								
Epithelium, Hyperplasia								2																		
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation		3																								
Ulcer		3																								

**CARDIOVASCULAR SYSTEM**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
--------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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Lab: BAT

DAY ON TEST	0 7 3 0	0 6 3 1	0 7 0 4	0 6 1 0	0 6 4 3	0 3 7 1	0 4 5 3	0 6 3 1	0 6 0 4	0 7 3 0	0 7 0 9	0 7 1 9	0 7 2 4	0 7 2 4	0 6 4 1	0 6 7 0	0 6 8 2	0 7 5 8	0 5 3 0	0 5 9 6	0 6 5 4	0 5 5 4	0 6 1 4	0 5 5 4	0 2	
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>150 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7

males  
(cont...)

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cardiomyopathy	1		2	1	1		1	1	1	1	2	2	1	1	1		1	2	1	1	1	1	2	1	1	1
Fibrosis	3		3	3	4	2	2	3	2	3	3	3	2	2	2	2	3	3	3	2	2	2	3	2	2	2
Thrombosis					2										4											
Myocardium, Infiltration Cellular, Mononuclear Cell	3		3	3	4	2	2	3	2	3	3	3	2	2	2	2	3	3	3	2	2	2	3	2	2	2
Myocardium, Necrosis	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Myocardium, Vacuolization Cytoplasmic	3		3	3	4	2	2	3	2	3	3	3	2	2	2	2	3	3	3	2	2	2	3	2	2	2

### ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia									2		1	1	1	1	1	1			1							1
Vacuolization Cytoplasmic	2		1	1	1			2	1	1			1		2	1		1	1	1	2	1	1		1	1
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia	3				3												2	2								
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia								1	2	1	1												4			
Parathyroid Gland	+	+	M	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis	3			4	3		4		3	2					2	4	2				2	2	2	4		3
Cyst					2	2			2			2									2					
Pars Distalis, Hyperplasia				4				2				2		3						3	1	2			2	

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+ .. Tissue examined microscopically  
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I .. Insufficient tissue  
M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically  
1-4 .. Lesion qualified as:  
1) Minimal 3) Moderate  
2) Mild 4) Marked

TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FISCHER 344 RATS MALE		7	6	7	6	6	3	4	6	6	7	7	7	7	7	6	6	6	7	5	7	5	5	6	5	3	0	0
150 MG/KG		3	3	0	1	4	7	5	3	0	3	1	2	0	2	2	4	7	8	2	5	3	9	5	5	1	0	0
ANIMAL ID		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7

males (cont...)

Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst																												
C-cell, Hyperplasia			1	1		1		1	1	2			2		1	3	2	1	1	2		1	2	1	1			
Follicle, Hyperplasia	2																											

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Penis																												
Inflammation																												
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst																												
Hyperplasia																												
Inflammation	1	2	3	2	2	2	2	2	2	2	2	2	2	1	2	2	2	2	1			2	2	2	2	1	2	
Duct, Ectasia																												
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia	1	2	1	1	1	1	1	1	1	1	1				1	1	1				2	1	1	1		1	1	
Inflammation				2	2	2	2	2	3				1		1	2	2					2	2	1		2	2	
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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bis(2-Chloroethoxy)methane

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 Lab: BAT

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
DAY ON TEST		7	6	7	6	6	3	4	6	6	7	7	7	7	6	6	6	7	5	7	5	5	6	5		
DAY ON TEST		3	3	0	1	4	7	5	3	0	3	1	2	0	2	2	4	7	8	2	5	3	9	5	5	1
DAY ON TEST		0	1	4	0	3	1	3	1	4	0	9	9	4	9	4	1	0	2	9	8	0	6	4	4	2
<b>FISCHER 344 RATS MALE</b> <b>150 MG/KG</b>	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ANIMAL ID	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ANIMAL ID	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

males  
(cont...)

Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Necrosis																									
Germinal Epithelium, Atrophy		2																							

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy													4											3
Hyperplasia					3											3								
Lymph Node			+						+									+						
Deep Cervical, Ectasia																								
Deep Cervical, Hyperplasia, Lymphoid																								
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy																								
Fibrosis				2										1										
Hematopoietic Cell Proliferation				2		2		2		2							3			2				2
Infarct																				2				
Stromal Hyperplasia																								
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy	4	4	4	4	3	4	1	4	4	4		4		3	4	4	4	4	4	4	4	4	4	4

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TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 bis(2-Chloroethoxy)methane  
 CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	0																								
	7	6	7	6	6	3	4	6	6	7	7	7	7	7	6	6	6	7	5	7	5	5	6	5	
FISCHER 344 RATS MALE 150 MG/KG	3																								
	3	3	0	1	4	7	5	3	0	3	1	2	0	2	2	4	7	8	2	5	3	9	5	5	1
ANIMAL ID	0																								
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150 MG/KG	1																								
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ANIMAL ID	0																								
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150 MG/KG	1																								
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	2	3	4

males  
(cont...)

**INTEGUMENTARY SYSTEM**

Mammary Gland	+																								
Hyperplasia	+																								
	1																								
Skin	+																								
Control Dermis, Fibrosis	+																								
Sebaceous Gland, Hyperplasia	+																								
Site Of Application - Dermis, Inflammation	2																								
Site Of Application - Epidermis, Hyperkeratosis	1																								

**MUSCULOSKELETAL SYSTEM**

Bone	+																								
Osteopetrosis	+																								
Skeletal Muscle	+																								

**NERVOUS SYSTEM**

Brain	+																								
Hydrocephalus	+																								
Hippocampus, Necrosis	3																								
Hypothalamus, Compression	4																								

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 Time Report Requested: 14:57:37  
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 Lab: BAT

DAY ON TEST	Animals																								
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	6	7	6	6	3	4	6	6	7	7	7	7	7	6	6	6	7	5	7	5	5	6	5	
	3	3	0	1	4	7	5	3	0	3	1	2	0	2	2	4	7	8	2	5	3	9	5	5	
	0	1	4	0	3	1	3	1	4	0	9	9	4	9	4	1	0	2	9	8	0	6	4	4	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	

**FISCHER 344 RATS MALE**  
 ANIMAL ID  
**150 MG/KG**

males  
(cont...)

Thalamus, Necrosis 2

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation	1				2			1			1					2	1		3		1		1	1
Alveolar Epithelium, Hyperplasia	2	3										2												
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Foreign Body		X								X														
Inflammation		2	1	1		1		1		2	2	2	1	2		2		1		2				
Glands, Cyst																								
Olfactory Epithelium, Degeneration		2	1	1		1		1		2	1	2	1	1		3	1		1	2	1		1	1
Olfactory Epithelium, Metaplasia, Respiratory		1																			1			
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation			2	2																				

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Sclera, Metaplasia, Osseous		1	2	2				2	1	1		2	1	2	1	1	2	2		2		1		1
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy																								
Inflammation																								

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 Page 40



TDMS No. 99028 - 05  
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 Species/Strain: RATS/F 344

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 bis(2-Chloroethoxy)methane  
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 Lab: BAT

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		7	6	7	6	6	3	4	6	6	7	7	7	7	7	6	6	6	7	5	7	5	5	6	5	
		3	3	0	1	4	7	5	3	0	3	1	2	0	2	2	4	7	8	2	5	3	9	5	5	1
		0	1	4	0	3	1	3	1	4	0	9	9	4	9	4	1	0	2	9	8	0	6	4	4	2
<b>FISCHER 344 RATS MALE</b> ANIMAL ID		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	<b>150 MG/KG</b>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

males  
(cont...)

**URINARY SYSTEM**

Kidney  
Nephropathy

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
2	1	2	1	2		3	1	1	2		2	2	2	2	1	1	2	2	3	1	2	1	1	2

Urinary Bladder  
Transitional Epithelium, Hyperplasia

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
																								2

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 Lab: BAT

DAY ON TEST	0 0																							
	7 6 7 7 6 4 2 5 5 7 7 4 4 7 5 7 6 6 6 7 7 6 6 7 7																							
FISCHER 344 RATS MALE 150 MG/KG ANIMAL ID	2 7 2 2 7 8 8 9 2 3 2 1 2 2 9 1 1 6 5 3 2 8 4 2 1																							
	9 7 0 9 0 1 2 4 3 0 9 4 6 9 6 4 0 1 4 0 9 0 0 9 2																							
FISCHER 344 RATS MALE 150 MG/KG ANIMAL ID	0 0																							
	0 0																							
FISCHER 344 RATS MALE 150 MG/KG ANIMAL ID	1 1																							
	2 2 2 3																							
FISCHER 344 RATS MALE 150 MG/KG ANIMAL ID	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9																							
	0 0																							
<b>* TOTALS</b>																								

**ALIMENTARY SYSTEM**

Esophagus	+ +																								<b>50</b>
Intestine Large, Cecum	+ +																								<b>50</b>
Intestine Large, Colon	+ +																								<b>50</b>
Intestine Large, Rectum Parasite Metazoan	+ +																								<b>50</b>
																									<b>7 2.0</b>
Intestine Small, Duodenum	+ +																								<b>50</b>
Intestine Small, Ileum	+ +																								<b>50</b>
Intestine Small, Jejunum	+ +																								<b>50</b>
Liver	+ +																								<b>50</b>
Angiectasis	1																								<b>3 1.0</b>
Basophilic Focus	X X X X																								<b>16</b>
Clear Cell Focus	X X X X																								<b>14</b>
Degeneration, Cystic	2																								<b>10 1.4</b>
Eosinophilic Focus	X X X X																								<b>8</b>
Fatty Change	2 2 1 X																								<b>16 1.6</b>
Fibrosis	1 2 1																								<b>23 1.2</b>
Hepatodiaphragmatic Nodule	X X X X																								<b>6</b>
Inflammation	1 1																								<b>33 1.0</b>

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 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
	7	6	7	7	6	4	2	5	5	7	7	4	4	7	5	7	6	6	6	7	7	6	6	7	7									
	2	7	2	2	7	8	8	9	2	3	2	1	2	2	9	1	1	6	5	3	2	8	4	2	1									
	9	7	0	9	0	1	2	4	3	0	9	4	6	9	6	4	0	1	4	0	9	0	0	9	2									
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
150 MG/KG	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5									
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0									
																								<b>* TOTALS</b>										
Mixed Cell Focus	X															X				8														
Necrosis												2		2		5	1.8																	
Thrombosis														2		2	2.5																	
Bile Duct, Hyperplasia	2	2	2	2	2	1	2	1	2	1	2	3	2	1	2	2	1	2	2	1	2	2	1	2	44	1.8								
Centrilobular, Necrosis												2		2		2	1.8																	
Mesentery												+		+		9																		
Fat, Necrosis												3		3		3		8	2.9															
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50									
Acinus, Atrophy	1															2		1		3		1		1		1		2		17	1.6			
Acinus, Hyperplasia																										1	1.0							
Duct, Cyst												2																	2		1		4	1.8
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50									
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50									
Inflammation	3															3				4				3		6	3.3							
Ulcer																4													2	4.0				
Epithelium, Hyperplasia																4													1	2.0				
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50									
Inflammation																													1	3.0				
Ulcer																													1	3.0				

**CARDIOVASCULAR SYSTEM**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
--------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

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 + .. Tissue examined microscopically  
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 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
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 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		7	6	7	7	6	4	2	5	5	7	7	4	4	7	5	7	6	6	6	7	7	6	6	7	7	7
		2	7	2	2	7	8	8	9	2	3	2	1	2	2	9	1	1	6	5	3	2	8	4	2	1	
		9	7	0	9	0	1	2	4	3	0	9	4	6	9	6	4	0	1	4	0	9	0	0	9	2	
<b>FISCHER 344 RATS MALE</b>	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>150 MG/KG</b>		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	5
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	<b>* TOTALS</b>

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cardiomyopathy	1	1		1	1	1	1	2	1	1	1	1	1	2	1	1		2	2	1	2	1	1	1	2	<b>45 1.2</b>
Fibrosis	3	3	3	3	2	2	2	2	3	2	3	3	2	3	2	3	3	3	2	3	3	2	2	3	3	<b>49 2.6</b>
Thrombosis																	2		4							<b>4 3.0</b>
Myocardium, Infiltration Cellular, Mononuclear Cell	3	3	3	3	2	2	2	2	3	2	3	3	2	3	2	3	3	3	2	3	3	2	2	3	3	<b>49 2.6</b>
Myocardium, Necrosis	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	<b>49 1.0</b>
Myocardium, Vacuolization Cytoplasmic	3	3	3	3	2	2	2	2	3	2	3	3	2	3	2	3	3	3	2	3	3	2	2	3	3	<b>49 2.6</b>

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Hyperplasia				2											1				1	2						<b>13 1.2</b>		
Vacuolization Cytoplasmic	1		2	2	2		1	1		1				1	1	1	2	2	2	2	1	1		1	2	<b>35 1.3</b>		
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Hyperplasia				1													1								1	2	<b>8 1.9</b>	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Hyperplasia	1	1					1		1												1	1				<b>11 1.4</b>		
Parathyroid Gland	+	M	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	45		
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Angiectasis	2	4	2		3			4								3		3			2	2			1	2	3	<b>26 2.7</b>
Cyst							4										1							2	1	2	<b>10 2.0</b>	
Pars Distalis, Hyperplasia											1		1							2						<b>12 2.1</b>		

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1-4 .. Lesion qualified as:  
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Page 44

TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

bis(2-Chloroethoxy)methane

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 Lab: BAT

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		7	6	7	7	6	4	2	5	5	7	7	4	4	7	5	7	6	6	6	7	7	6	6	7	7
		2	7	2	2	7	8	8	9	2	3	2	1	2	2	9	1	1	6	5	3	2	8	4	2	1
		9	7	0	9	0	1	2	4	3	0	9	4	6	9	6	4	0	1	4	0	9	0	0	9	2
<b>FISCHER 344 RATS MALE</b> <b>150 MG/KG</b>	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
		<b>* TOTALS</b>																								

Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>
Cyst																										2	<b>1 2.0</b>
C-cell, Hyperplasia					1									3	1					2	2	2					<b>23 1.5</b>
Follicle, Hyperplasia																											<b>1 2.0</b>

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>
Penis																											<b>1</b>
Inflammation																											<b>1 2.0</b>
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>
Cyst			4																								<b>2 3.0</b>
Hyperplasia																											<b>1 2.0</b>
Inflammation	2	2	3	1	2	2		2	2	2	2	1		2	2	2	2	2	2	2	1	2	1	2		<b>47 1.9</b>	
Duct, Ectasia																								4			<b>1 4.0</b>
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>
Hyperplasia	2	1	2	1	1			1	1	1	2			2	1	1	1	1		1	1	1		1	2	<b>39 1.2</b>	
Inflammation		2	2	1	2			2	2					2	1	2	1	2	2	1		2	1	1	2	<b>32 1.8</b>	
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>

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 bis(2-Chloroethoxy)methane  
 CAS Number: 111-91-1

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DAY ON TEST		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		7	6	7	7	6	4	2	5	5	7	7	4	4	7	5	7	6	6	6	7	7	6	6	7	7
		2	7	2	2	7	8	8	9	2	3	2	1	2	2	9	1	1	6	5	3	2	8	4	2	1
		9	7	0	9	0	1	2	4	3	0	9	4	6	9	6	4	0	1	4	0	9	0	0	9	2
<b>FISCHER 344 RATS MALE</b>		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
		<b>* TOTALS</b>																								

Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Necrosis																											1	2.0
Germinal Epithelium, Atrophy																											1	2.0

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50							
Atrophy																											3	4	3.3					
Hyperplasia																											4	4	3.3					
Lymph Node	+		+												+													6						
Deep Cervical, Ectasia																												2	1	2.0				
Deep Cervical, Hyperplasia, Lymphoid																												2	1	2.0				
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	0					
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50						
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	49						
Atrophy																													2	3	1.7			
Fibrosis																													1	2	1.5			
Hematopoietic Cell Proliferation																													1	1	15	1.9		
Infarct																														1	1	1	2.0	
Stromal Hyperplasia																													4	1	4.0	1	4.0	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50						
Atrophy																													4	4	4	3.7	46	3.7

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DAY ON TEST	0 0																								* TOTALS
	7 6 7 7 6 4 2 5 5 7 7 4 4 7 5 7 6 6 7 7 6 6 7 7																								
FISCHER 344 RATS MALE 150 MG/KG ANIMAL ID	2 7 2 2 7 8 8 9 2 3 2 1 2 2 9 1 1 6 5 3 2 8 4 2 1																								* TOTALS
	9 7 0 9 0 1 2 4 3 0 9 4 6 9 6 4 0 1 4 0 9 0 0 9 2																								
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5
4	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0

**INTEGUMENTARY SYSTEM**

Mammary Gland Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	7 1.1
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1 2.0
Control Dermis, Fibrosis																								2			1 2.0
Sebaceous Gland, Hyperplasia																											2 1.0
Site Of Application - Dermis, Inflammation																											1 1.0
Site Of Application - Epidermis, Hyperkeratosis																											1 1.0

**MUSCULOSKELETAL SYSTEM**

Bone Osteopetrosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1 2.0
Skeletal Muscle																											1

**NERVOUS SYSTEM**

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hydrocephalus		2	2		3			3	4									3							3		14 3.0
Hippocampus, Necrosis																											1 2.0
Hypothalamus, Compression		4		4			3	3									4							3		12 3.5	

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 Species/Strain: RATS/F 344

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bis(2-Chloroethoxy)methane

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 Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	6	7	7	6	4	2	5	5	7	7	4	4	7	5	7	6	6	6	7	7	6	6	7	7	
	2	7	2	2	7	8	8	9	2	3	2	1	2	2	9	1	1	6	5	3	2	8	4	2	1	
	9	7	0	9	0	1	2	4	3	0	9	4	6	9	6	4	0	1	4	0	9	0	0	9	2	
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>150 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	
																								<b>* TOTALS</b>		

Thalamus, Necrosis

**1 2.0**

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Inflammation	2		1		1				1		1			1			2			1				2	2	1	<b>20 1.3</b>
Alveolar Epithelium, Hyperplasia						2						2	1	1													<b>9 1.9</b>
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Foreign Body	X			X																							<b>4</b>
Inflammation	2			2					2		2		2	1				1			2		1				<b>22 1.6</b>
Glands, Cyst																					2					2	<b>2 2.0</b>
Olfactory Epithelium, Degeneration	1	1	1	2	1					1	1			1		1	2	1	2						1		<b>30 1.3</b>
Olfactory Epithelium, Metaplasia, Respiratory	2																										<b>3 1.3</b>
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Inflammation																											<b>3 1.7</b>

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Sclera, Metaplasia, Osseous	2									1		2	1		1		1	2				1	1		1	2	<b>28 1.5</b>
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Atrophy																											<b>1 1.0</b>
Inflammation															1												<b>2 1.5</b>

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Page 48

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	6	7	7	6	4	2	5	5	7	7	4	4	7	5	7	6	6	6	7	7	6	6	7	7
	2	7	2	2	7	8	8	9	2	3	2	1	2	2	9	1	1	6	5	3	2	8	4	2	1
	9	7	0	9	0	1	2	4	3	0	9	4	6	9	6	4	0	1	4	0	9	0	0	9	2
<b>FISCHER 344 RATS MALE</b> ANIMAL ID <b>150 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
	<b>* TOTALS</b>																								

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Nephropathy	2	1	1	2	2			1	1	1	2		1	1		3	1	1	1	2	3	1		3	3	43 1.7
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Transitional Epithelium, Hyperplasia																									1 2.0	

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 M .. Missing tissue  
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 1) Minimal 3) Moderate  
 2) Mild 4) Marked  
 Page 49

**TDMS No.** 99028 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 bis(2-Chloroethoxy)methane  
**CAS Number:** 111-91-1

**Date Report Requested:** 11/12/2007  
**Time Report Requested:** 14:57:37  
**First Dose M/F:** 09/16/02 / 09/17/02  
**Lab:** BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	6	7	7	7	6	7	6	7	7	7	7	7	6	7	7	6	7	7	6	7	5	7		
	2	9	2	2	2	5	3	2	3	1	3	3	1	2	1	4	2	3	5	3	2	6	3	4	1
	9	8	9	9	9	4	0	0	0	7	0	0	5	4	2	0	9	0	2	0	4	9	0	4	7
FISCHER 344 RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
300 MG/KG	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

**males  
(cont...)**

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan																									
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																									
Ulcer																									
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis																									
Basophilic Focus																									
Clear Cell Focus	X	X	X	X	X				X		X	X					X	X		X			X		
Degeneration, Cystic																									
Eosinophilic Focus	X			X		X					X				X		X								
Fatty Change		1	1					1	2		2			2		2			1					1	1
Fibrosis	1			1	1	1			1		1	1	1	2	1	1	1			1	1	2	1	1	

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 BLANK .. Not examined microscopically  
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 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

	DAY ON TEST																									males (cont...)
	0 7 2 9	0 6 9 8	0 7 2 9	0 7 2 9	0 7 2 9	0 6 5 4	0 7 3 0	0 6 2 0	0 7 3 0	0 7 1 7	0 7 3 0	0 7 1 0	0 7 3 0	0 7 1 5	0 7 2 4	0 6 2 0	0 7 3 0	0 7 5 2	0 7 3 0	0 6 2 4	0 7 6 9	0 7 3 0	0 5 4 0	0 7 3 0		
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>300 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7		
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	
Hepatodiaphragmatic Nodule							X	X				X														
Inflammation	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Mixed Cell Focus					X			X						X												
Necrosis		2					1																			
Bile Duct, Cyst																										
Bile Duct, Hyperplasia	2	2	2	2	2	2	1	2	1	1	2	2	2	3	2	2	2	1		2	2	2	2	1		
Centrilobular, Necrosis																			3							
Mesentery							+				+							+		+	+		+			
Fat, Necrosis							2				2							2		2	4		2			
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Acinus, Atrophy	1		2	2			1	3									2		2				1	1		
Acinus, Hyperplasia											2															
Duct, Cyst						1																		1		
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Inflammation								3			3									1				3		
Ulcer		4									3													3		
Epithelium, Hyperplasia											2															
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		

**CARDIOVASCULAR SYSTEM**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
--------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	6	7	7	7	6	7	6	7	7	7	7	7	7	6	7	7	6	7	7	6	7	5	7	
	2	9	2	2	2	5	3	2	3	1	3	3	1	2	1	4	2	3	5	3	2	6	3	4	1
	9	8	9	9	9	4	0	0	0	7	0	0	5	4	2	0	9	0	2	0	4	9	0	4	7
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>300 MG/KG</b>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

males  
(cont...)

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy	2	2	2	2	2	2	2	1	2	1	1	2	2	1	2	2	1	1	3	1	2	2	2	2	2
Fibrosis	2	2	2		2	2	3	2	3	2	2	3	3	3	3	3	2	2	4	2	3	2	2	2	2
Thrombosis																									
Myocardium, Infiltration Cellular, Mononuclear Cell	2	2	2	3	2	2	3	2	3	2	2	3	3	3	3	3	2	2	4	2	3	2	2	2	2
Myocardium, Necrosis	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1
Myocardium, Vacuolization Cytoplasmic	2	2	2	3	2	2	3	2	3	2	2	3	3	3	3	3	2	2	4	2	3	3	2	2	2

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia	2	3			1									2	1	1			2						
Vacuolization Cytoplasmic	2	2	2		1	2	1	1	1	1	2	2	2		2	1	2		2	2	1	1		2	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis																									
Hyperplasia									1				3	2											
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia				1																					1
Parathyroid Gland	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia, Focal													2												
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis	2	4	4	2			2	2	2			1			3			3			3	2		3	3

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TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
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 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	0 0																									
	7 6 7 7 7 6 7 6 7 7 7 7 7 7 6 7 7 6 7 7 6 7 5 7																									
FISCHER 344 RATS MALE ANIMAL ID	2 9 2 2 2 5 3 2 3 1 3 3 1 2 1 4 2 3 5 3 2 6 3 4 1																									
	9 8 9 9 9 4 0 0 0 7 0 0 5 4 2 0 9 0 2 0 4 9 0 4 7																									
300 MG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	males (cont...)
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

Cyst Pars Distalis, Hyperplasia	1			2	2	3						3	3	2		2									
Thyroid Gland Cyst C-cell, Hyperplasia Follicle, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	2				1				1	3	2	1			1					1		1			

GENERAL BODY SYSTEM  
 NONE

GENITAL SYSTEM

Epididymis Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Preputial Gland Hyperplasia Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	1		2	1	2	2	2	2	2	2	2	3	2	2	2	1	2	2	1	2	2	2	2	2	2
Prostate Hyperplasia Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	2	2	1	1	1	1	2	1	2	1	1	2	2	1	1		1	1	1		1			1	1
	2	2	2	1	2	2	3	2	2	1	1	1	4		2		2	2	1		2		2	2	1
Seminal Vesicle Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
							3								3										

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TDMS No. 99028 - 05  
 Test Type: CHRONIC  
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 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

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 Lab: BAT

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		7	6	7	7	7	6	7	6	7	7	7	7	7	7	6	7	7	6	7	7	6	7	5	7	
		2	9	2	2	2	5	3	2	3	1	3	3	1	2	1	4	2	3	5	3	2	6	3	4	1
		9	8	9	9	9	4	0	0	0	7	0	0	5	4	2	0	9	0	2	0	4	9	0	4	7
FISCHER 344 RATS MALE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
300 MG/KG		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

males  
(cont...)

Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Germinal Epithelium, Mineralization																										

**HEMATOPOIETIC SYSTEM**

Bone Marrow Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node Deep Cervical, Hyperplasia, Lymphoid Mediastinal, Hyperplasia, Lymphoid	+																									
	2																									
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
Lymph Node, Mesenteric Hyperplasia, Lymphoid	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Spleen Atrophy Fibrosis Hematopoietic Cell Proliferation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	2									2											3					
	1		1	1	1	2				1		1		3		1					1					
Thymus Atrophy Ectopic Thyroid	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
	2	4	4	4	4		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	

**INTEGUMENTARY SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue  
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 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	Animals																									males (cont...)
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	6	7	7	7	6	7	6	7	7	7	7	7	7	6	7	7	6	7	7	6	7	5	7		
	2	9	2	2	2	5	3	2	3	1	3	3	1	2	1	4	2	3	5	3	2	6	3	4	1	
	9	8	9	9	9	4	0	0	0	7	0	0	5	4	2	0	9	0	2	0	4	9	0	4	7	
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>300 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

Mammary Gland Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
				1			1	1	1	2																	1	1
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

**MUSCULOSKELETAL SYSTEM**

Bone Joint, Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
-----------------------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

**NERVOUS SYSTEM**

Brain Hydrocephalus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hypothalamus, Compression		3						4	2					4												3		
		3						4	3					4												4		

**RESPIRATORY SYSTEM**

Lung Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Alveolar Epithelium, Hyperplasia	1		1			1					1										1		1				1	
	1												3										2					
Nose Foreign Body	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+
Inflammation	2		1		2					2	1			2	2		3										1	

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TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	0 0																								
	7 6 7 7 7 6 7 6 7 7 7 7 7 7 6 7 7 6 7 7 6 7 5 7																								
FISCHER 344 RATS MALE 300 MG/KG	2 9 2 2 2 5 3 2 3 1 3 3 1 2 1 4 2 3 5 3 2 6 3 4 1																								
	9 8 9 9 9 4 0 0 0 7 0 0 5 4 2 0 9 0 2 0 4 9 0 4 7																								
ANIMAL ID	0 0																								
	0 0																								
300 MG/KG	1 1																								
	5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6																								
																									males (cont...)

Glands, Cyst																											
Olfactory Epithelium, Degeneration	2	3	3	1	1	3	2	1	2	3	1	1	3	1	2	2	2	2		1	3	3	1	1	4		
Olfactory Epithelium, Metaplasia, Respiratory																		2	2	3							
Trachea	+ +																										

SPECIAL SENSES SYSTEM

Eye	+ +																																													
Cataract																		4								3																				
Retina, Atrophy																		4								3																				
Sclera, Metaplasia, Osseous		1	2	2	2	1		1	2		2	1	2	1	2	1	2	1	2	1	2		1																							
Harderian Gland	+ +																																													
Atrophy																								1																						
Hyperplasia																								1																						
Inflammation																										1																				
Zymbal's Gland																																														+

URINARY SYSTEM

Kidney	+ +																									
Fibrosis																										
Inflammation																		3								
Nephropathy	2	3	2	2	2	2	1	3	3	3	1	2	3	2	2	1	2	3	1	2	2	1	2	2	2	

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 Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	6	7	7	7	6	7	6	7	7	7	7	7	7	6	7	7	6	7	7	6	7	5	7	
	2	9	2	2	2	5	3	2	3	1	3	3	1	2	1	4	2	3	5	3	2	6	3	4	1
	9	8	9	9	9	4	0	0	0	7	0	0	5	4	2	0	9	0	2	0	4	9	0	4	7
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>300 MG/KG</b>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5
Renal Tubule, Hyperplasia																									
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation																									
Transitional Epithelium, Hyperplasia																									

males  
(cont...)

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Page 57

TDMS No. 99028 - 05  
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 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

bis(2-Chloroethoxy)methane

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Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		4	6	7	7	7	7	3	7	7	7	7	5	7	7	6	7	7	7	7	7	4	6	7	7	
		8	8	0	3	1	3	6	3	2	1	1	6	2	3	4	2	2	2	1	1	2	2	7	3	2
		5	2	4	0	6	0	7	0	9	9	9	5	9	0	7	9	9	9	2	9	9	3	7	0	9
<b>FISCHER 344 RATS MALE</b>		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>300 MG/KG</b>	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
		<b>* TOTALS</b>																								

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Parasite Metazoan						2				2					1											7 1.4
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Inflammation																								3		1 3.0
Ulcer																								3		1 3.0
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Angiectasis							1								1									1		6 1.2
Basophilic Focus				X					X				X	X	X					X	X				X	19
Clear Cell Focus								X	X			X	X		X		X				X			X	X	22
Degeneration, Cystic			1	2		1	2							2	2		1						1		1	15 1.5
Eosinophilic Focus				X			X								X								X	X		11
Fatty Change			1	1					1	2	2	1	1		1	1							2		1	20 1.3
Fibrosis			1	1					1	2	2	1	1	1	1	2	1		1					1	1	31 1.2

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TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	ANIMAL ID																									* TOTALS
	0 4	0 6	0 7	0 7	0 7	0 7	0 3	0 7	0 7	0 7	0 7	0 5	0 7	0 6	0 7	0 7	0 7	0 7	0 7	0 7	0 4	0 6	0 7	0 7	0 0	
	8	8	0	3	1	3	6	3	2	1	1	6	2	3	4	2	2	2	1	1	2	2	7	3	2	
	5	2	4	0	6	0	7	0	9	9	9	5	9	0	7	9	9	9	2	9	9	3	7	0	9	
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>300 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	0	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	

Hepatodiaphragmatic Nodule	X						X	X					X				X								9
Inflammation	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1				1	1	41
Mixed Cell Focus																									3
Necrosis																						3			3
Bile Duct, Cyst																				1					1
Bile Duct, Hyperplasia	2	1	1	2		2	1	1	2	2	2	1	2	3	2	2	3	2	1	2		1	2	2	47
Centrilobular, Necrosis					3														2			2			4
.....																									
Mesentery							+																		9
Fat, Necrosis													3			2									8
.....																									
Pancreas																									50
Acinus, Atrophy				1				3	1								2				1			1	17
Acinus, Hyperplasia							2											1							3
Duct, Cyst							1						2			2									5
.....																									
Salivary Glands																									50
.....																									
Stomach, Forestomach																									50
Inflammation																									
Ulcer																									
Epithelium, Hyperplasia																									
.....																									
Stomach, Glandular																									50

CARDIOVASCULAR SYSTEM

Blood Vessel																										50
--------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----

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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

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 Lab: BAT

DAY ON TEST	0																								* TOTALS	
	4	6	7	7	7	7	3	7	7	7	7	5	7	7	6	7	7	7	7	7	4	6	7	7		
	8	8	0	3	1	3	6	3	2	1	1	6	2	3	4	2	2	2	1	1	2	2	7	3	2	
	5	2	4	0	6	0	7	0	9	9	9	5	9	0	7	9	9	9	2	9	9	3	7	0	9	
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>300 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	0	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Cardiomyopathy	1	2	2	2	2		1	3	2	3	2	2	2	3	2	1	2	2	1	1	2	1	1	2	2	49 1.8	
Fibrosis	2	3	2	2	2	2	2	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	1	2	3	3	49 2.5
Thrombosis					4													4					2			3 3.3	
Myocardium, Infiltration Cellular, Mononuclear Cell	2	3	2	2	2	2	2	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	1	2	3	3	50 2.5
Myocardium, Necrosis	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50 1.0	
Myocardium, Vacuolization Cytoplasmic	2	3	2	2	2	2	2	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3	1	2	3	3	50 2.5

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia			2						2				2	1	1	2			2					1	2	16 1.7
Vacuolization Cytoplasmic		1	1	2	2	1			2	2	1	1	1	2	1	2	1	2					1	2	2	39 1.6
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Angiectasis																		3						3		2 3.0
Hyperplasia								1	3					2		2		3	2		2					10 2.1
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia			3								1								2							5 1.6
Parathyroid Gland	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47	
Hyperplasia, Focal																										1 2.0
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Angiectasis	3	3	3	3	3	2		2		2		4		3	3	2	2	2	1		3	3	2			32 2.6

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TDMS No. 99028 - 05  
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 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 bis(2-Chloroethoxy)methane  
 CAS Number: 111-91-1

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 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	ANIMAL ID																								* TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	6	7	7	7	7	3	7	7	7	7	5	7	7	6	7	7	7	7	7	7	4	6	7	7	0
8	8	0	3	1	3	6	3	2	1	1	6	2	3	4	2	2	2	1	1	2	2	7	3	2	0
5	2	4	0	6	0	7	0	9	9	9	5	9	0	7	9	9	9	2	9	9	3	7	0	9	0

FISCHER 344 RATS MALE	ANIMAL ID																								* TOTALS
300 MG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0

Cyst Pars Distalis, Hyperplasia						1				1															1	8 1.5	17 2.2
Thyroid Gland Cyst	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1 2.0
C-cell, Hyperplasia						2								1				1			2					14 1.5	
Follicle, Hyperplasia										1											2					2 1.5	

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Epididymis Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1 1.0
Preputial Gland Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	2 2.5
Inflammation	2	2	2	2	2	2	1	2	2	2	2	2	1	2	1	2	1	2	1	2	2	1	2	2	3	49 1.8	
Prostate Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	40 1.2
Inflammation	1		1	1	1		1	1	1	2		1	1	1	2	1		1	1	1	1		1	1		42 1.8	
Seminal Vesicle Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	2 3.0

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 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked



TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 bis(2-Chloroethoxy)methane  
 CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	6	7	7	7	7	3	7	7	7	7	5	7	7	6	7	7	7	7	7	4	6	7	7			
	8	8	0	3	1	3	6	3	2	1	1	6	2	3	4	2	2	2	1	1	2	2	7	3	2		
	5	2	4	0	6	0	7	0	9	9	9	5	9	0	7	9	9	9	2	9	9	3	7	0	9		
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>300 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	0	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	<b>* TOTALS</b>	

Mammary Gland Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
					2	2						1	1	2												12 1.3
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

**MUSCULOSKELETAL SYSTEM**

Bone Joint, Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
									1																	1 1.0

**NERVOUS SYSTEM**

Brain Hydrocephalus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hypothalamus, Compression	2	3	2	3			4					3	2	4		3										14 3.0
	4	3	3	3					2		3	3	4		3											14 3.3

**RESPIRATORY SYSTEM**

Lung Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Alveolar Epithelium, Hyperplasia			1								1	1			1	1	1	1	1							16 1.0
				1			2	1	2								1									8 1.6
Nose Foreign Body	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Inflammation	2	2			1	2				2	1				1								2	1		5
																										18 1.7

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TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 bis(2-Chloroethoxy)methane  
 CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	6	7	7	7	7	3	7	7	7	7	5	7	7	6	7	7	7	7	7	4	6	7	7		
	8	8	0	3	1	3	6	3	2	1	1	6	2	3	4	2	2	2	1	1	2	2	7	3	2	
	5	2	4	0	6	0	7	0	9	9	9	5	9	0	7	9	9	9	2	9	9	3	7	0	9	
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>300 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	
																									<b>* TOTALS</b>	
Renal Tubule, Hyperplasia																									<b>1 1.0</b>	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Inflammation																									<b>2 3.5</b>	
Transitional Epithelium, Hyperplasia																							2		<b>1 2.0</b>	

\*\*\* END OF MALE DATA \*\*\*

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+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

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1-4 .. Lesion qualified as:

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2) Mild 4) Marked

TDMS No. 99028 - 05  
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 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 bis(2-Chloroethoxy)methane  
 CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	0																									females (cont...)
	7	6	7	7	5	5	7	7	7	7	6	5	5	5	6	7	7	7	7	7	6	6	5	7	7	
	3	1	3	1	8	2	0	2	3	3	8	4	1	1	6	3	3	3	3	3	7	9	7	3	3	
	0	4	1	8	0	9	3	1	1	0	6	6	1	9	8	1	1	0	0	0	2	4	1	0	1	
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>0 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum Ulcer	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum Ulcer	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis				1												1								1
Basophilic Focus	X		X	X	X		X		X	X	X	X	X	X		X	X	X	X	X	X	X	X	X
Clear Cell Focus			X			X						X						X	X			X		X
Eosinophilic Focus																	X	X						
Fatty Change	1					2			1			3											1	
Fibrosis																					1	1	1	
Hepatodiaphragmatic Nodule																X					X	X		

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TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 bis(2-Chloroethoxy)methane  
 CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	0																								
	7	6	7	7	5	5	7	7	7	7	6	5	5	5	6	7	7	7	7	6	6	5	7	7	
	3	1	3	1	8	2	0	2	3	3	8	4	1	1	6	3	3	3	3	7	9	7	3	3	
	0	4	1	8	0	9	3	1	1	0	6	6	1	9	8	1	1	0	0	2	4	1	0	1	
FISCHER 344 RATS FEMALE 0 MG/KG ANIMAL ID	0																								
	0																								
	2																								
	0																								
	1																								
	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	
	Inflammation	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Mixed Cell Focus			X							X															
Necrosis				1																			1		
Bile Duct, Hyperplasia		2			1					1				1	1	1				1	1		1		
Centrilobular, Necrosis		3																					2		
Periportal, Cytoplasmic Alteration	2																								
Mesentery	+							+			+						+		+	+				+	
Necrosis																									
Fat, Necrosis	2							3			2						4		2	2				2	
Oral Mucosa																+									
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation					2																				
Acinus, Atrophy		1									1				2		1					2		3	
Acinus, Hyperplasia																									
Duct, Cyst				2							1														
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation						3						3		2									4		
Ulcer												3		2									4		
Epithelium, Hyperplasia					4																				
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation						2																			
Ulcer		1																							

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 Page 67

TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 bis(2-Chloroethoxy)methane  
 CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
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 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	0																								
	7	6	7	7	5	5	7	7	7	7	6	5	5	5	6	7	7	7	7	7	6	6	5	7	7
	3	1	3	1	8	2	0	2	3	3	8	4	1	1	6	3	3	3	3	3	7	9	7	3	3
	0	4	1	8	0	9	3	1	1	0	6	6	1	9	8	1	1	0	0	0	2	4	1	0	1
<b>FISCHER 344 RATS FEMALE</b> ANIMAL ID <b>0 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	
	females (cont...)																								

**CARDIOVASCULAR SYSTEM**

Blood Vessel	+ +																								
Heart	+ +																								
Cardiomyopathy	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	
Fibrosis	2	2	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	2
Thrombosis																									
Coronary Artery, Inflammation																									
Myocardium, Infiltration Cellular, Mononuclear Cell	2	2	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	2
Myocardium, Necrosis	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Myocardium, Vacuolization Cytoplasmic	2	2	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	2

**ENDOCRINE SYSTEM**

Adrenal Cortex	+ +																								
Angiectasis																									
Hyperplasia	1		1			1		1	2		2				2									3	
Vacuolization Cytoplasmic	3				1	2			1	1								2							
Adrenal Medulla	+ +																								
Hyperplasia																									
Islets, Pancreatic	+ +																								
Hyperplasia		1		1								1		1	1								1		

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 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

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 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	0																								
	7	6	7	7	5	5	7	7	7	7	6	5	5	5	6	7	7	7	7	7	6	6	5	7	7
FISCHER 344 RATS FEMALE 0 MG/KG	0																								
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
ANIMAL ID	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

females  
(cont...)

Parathyroid Gland	+	+	+	+	M	+	+	+	+	+	+	+	+	M	+	+	M	M	+	+	+	+	M	+	M
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis	3		2	2	4		3	2	3	2	2	4		2			2	1	1				2		2
Atrophy																									
Cyst			1			1				1			1			1			3	2	1			1	2
Pars Distalis, Hyperplasia		3	3							2			3			3	2				2			1	2
Pars Intermedia, Hyperplasia																			2						1
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
C-cell, Hyperplasia	2	2	1	2	1		1		1	3	3	1			2	1	1	2	1			2	1	2	2

**GENERAL BODY SYSTEM**  
 NONE

**GENITAL SYSTEM**

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst																									
Hyperplasia																									
Inflammation	1	2	1	1	1		1	1	1	1	1				1		1	1		2	1			2	
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst	2								2						3		2								
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	0																									0
	7																									
3																										
0																										
<b>FISCHER 344 RATS FEMALE</b> <b>0 MG/KG</b>	0																									0
	0																									0
	2																									2
	0																									0
	1																									1
																									<b>females (cont...)</b>	

Atrophy  
 Inflammation, Suppurative  
 Cervix, Myometrium, Hyperplasia  
 Endometrium, Hyperplasia, Cystic

2

1

2

2

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+																								
Atrophy																									
Hyperplasia																									
Lymph Node																									
Mediastinal, Hyperplasia, Lymphoid																									
Pancreatic, Ectasia																									
Pancreatic, Hyperplasia, Lymphoid																									
Lymph Node, Mandibular	M																								
Lymph Node, Mesenteric	+																								
Hyperplasia, Lymphoid																									
Spleen	+																								
Atrophy																									
Hematopoietic Cell Proliferation																									
Thymus	+																								
Atrophy																									

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 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

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	DAY ON TEST																								
	0 7	0 6	0 7	0 7	0 5	0 5	0 7	0 7	0 7	0 7	0 6	0 5	0 5	0 5	0 6	0 7	0 7	0 7	0 7	0 7	0 6	0 6	0 5	0 7	0 7
<b>FISCHER 344 RATS FEMALE</b>	3	1	3	1	8	2	0	2	3	3	8	4	1	1	6	3	3	3	3	3	7	9	7	3	3
<b>0 MG/KG</b>	0	4	1	8	0	9	3	1	1	0	6	6	1	9	8	1	1	0	0	0	2	4	1	0	1
<b>ANIMAL ID</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	
	<b>females (cont...)</b>																								

**INTEGUMENTARY SYSTEM**

Mammary Gland Hyperplasia Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skin Control Dermis, Inflammation Control Epidermis, Hyperplasia Site Of Application - Dermis, Fibrosis Site Of Application - Epidermis, Hyperplasia Site Of Application - Epidermis, Ulcer	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

**MUSCULOSKELETAL SYSTEM**

Bone Joint, Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
-----------------------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

**NERVOUS SYSTEM**

Brain Hemorrhage Hydrocephalus Hypothalamus, Compression	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
					3		4		3		3	3												
				4		3		3		4	3													

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+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 bis(2-Chloroethoxy)methane  
 CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	0																								
	7	6	7	7	5	5	7	7	7	7	6	5	5	5	6	7	7	7	7	6	6	5	7	7	
	3	1	3	1	8	2	0	2	3	3	8	4	1	1	6	3	3	3	3	7	9	7	3	3	
	0	4	1	8	0	9	3	1	1	0	6	6	1	9	8	1	1	0	0	2	4	1	0	1	
<b>FISCHER 344 RATS FEMALE</b> <b>0 MG/KG</b>	ANIMAL ID																								
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5
	<b>females (cont...)</b>																								

**RESPIRATORY SYSTEM**

Lung	+ +																								
Congestion																									
Inflammation	2		1	1	1						1				1	1			1					1	
Thrombosis	2																								
Alveolar Epithelium, Hyperplasia	2																								
Nose	+ +																								
Foreign Body																									
Inflammation																									
Olfactory Epithelium, Degeneration	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 1																								
Trachea	+ +																								

**SPECIAL SENSES SYSTEM**

Eye	+ +																																													
Cataract																																														
Retina, Atrophy																																														
Sclera, Metaplasia, Osseous	1		2																							1		2																3		3
Harderian Gland	+ +																																													
Inflammation	1																																													

**URINARY SYSTEM**

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 + .. Tissue examined microscopically  
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 Page 72



TDMS No. 99028 - 05  
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 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
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 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
DAY ON TEST		7	6	7	7	5	5	7	7	7	7	6	5	5	5	6	7	7	7	7	6	6	5	7	7	
DAY ON TEST		3	1	3	1	8	2	0	2	3	3	8	4	1	1	6	3	3	3	3	3	7	9	7	3	3
DAY ON TEST		0	4	1	8	0	9	3	1	1	0	6	6	1	9	8	1	1	0	0	0	2	4	1	0	1
<b>FISCHER 344 RATS FEMALE</b> <b>0 MG/KG</b>	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ANIMAL ID	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	
	ANIMAL ID	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5
		<b>females (cont...)</b>																								
Kidney		+ +																								
Hydronephrosis																										
Nephropathy		3 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1																								
Renal Tubule, Cyst																										
Urinary Bladder Inflammation		+ +																								

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DAY ON TEST	0																								* TOTALS
	7	4	7	5	6	5	7	7	5	6	6	5	6	7	7	5	7	7	6	6	7	4	0	7	
	2	7	3	8	0	3	3	3	3	9	0	9	1	3	0	8	3	3	8	8	3	6	3	3	5
	3	9	1	1	3	2	1	1	9	4	5	7	6	1	9	2	1	0	3	3	1	9	9	0	3
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>0 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Parasite Metazoan	1									1															3 1.0
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Ulcer										2															1 2.0
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Ulcer																							4		1 4.0
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Angiectasis																								1	4 1.0
Basophilic Focus	X		X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	X	X	X	X	X	41
Clear Cell Focus																	X	X							9
Eosinophilic Focus				X					X														X		5
Fatty Change	1													1	3						2				9 1.7
Fibrosis						1										1									5 1.0
Hepatodiaphragmatic Nodule			X				X									X						X			7

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**TDMS No. 99028 - 05**  
**Test Type: CHRONIC**  
**Route: SKIN APPLICATION**  
**Species/Strain: RATS/F 344**

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

bis(2-Chloroethoxy)methane

**CAS Number: 111-91-1**

**Date Report Requested: 11/12/2007**  
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**First Dose M/F: 09/16/02 / 09/17/02**  
**Lab: BAT**

DAY ON TEST	0																				* TOTALS					
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
	7	4	7	5	6	5	7	7	5	6	6	5	6	7	7	5	7	7	6	6	7	4	0	7	5	
	2	7	3	8	0	3	3	3	3	9	0	9	1	3	0	8	3	3	8	8	3	6	3	3	5	
	3	9	1	1	3	2	1	1	9	4	5	7	6	1	9	2	1	0	3	3	1	9	9	0	3	
<b>FISCHER 344 RATS FEMALE</b> <b>0 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	
Inflammation	1	1		1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	<b>40 1.0</b>	
Mixed Cell Focus					X															X					<b>4</b>	
Necrosis																									<b>2 1.0</b>	
Bile Duct, Hyperplasia		1	3			2	1	1						2			1			1					<b>17 1.3</b>	
Centrilobular, Necrosis											2		3												<b>4 2.5</b>	
Periportal, Cytoplasmic Alteration																									<b>1 2.0</b>	
Mesentery		+							+						+						+	+		+	<b>13</b>	
Necrosis		3																							<b>1 3.0</b>	
Fat, Necrosis		3							2						3						3	3		2	<b>13 2.5</b>	
Oral Mucosa																									<b>1</b>	
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Inflammation																					3				<b>2 2.5</b>	
Acinus, Atrophy	1				2	1	1	1													2	1		1	<b>13 1.4</b>	
Acinus, Hyperplasia																									<b>1 2.0</b>	
Duct, Cyst					2							2													<b>4 1.8</b>	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Inflammation											3		4												<b>6 3.2</b>	
Ulcer													4												<b>4 3.3</b>	
Epithelium, Hyperplasia																									<b>1 4.0</b>	
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Inflammation												2													<b>2 2.0</b>	
Ulcer																									<b>1 1.0</b>	

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TDMS No. 99028 - 05  
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 Species/Strain: RATS/F 344

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bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

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 Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	4	7	5	6	5	7	7	5	6	6	5	6	7	7	5	7	7	6	6	7	4	0	7	5
	2	7	3	8	0	3	3	3	3	9	0	9	1	3	0	8	3	3	8	8	3	6	3	3	5
	3	9	1	1	3	2	1	1	9	4	5	7	6	1	9	2	1	0	3	3	1	9	9	0	3
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>0 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>ANIMAL ID</b>	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
<b>* TOTALS</b>																									

**CARDIOVASCULAR SYSTEM**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cardiomyopathy	2	1	1	1	1	1	2	1	1	1	1	1	1	2	2	2	2	2	1	1	1	1	1	1	40 1.2
Fibrosis	2	1	1	1	2	2	2	1	1	2	1	2	3	3	3	3	2	2	1	2	2	2	1	2	50 1.5
Thrombosis																									1 3.0
Coronary Artery, Inflammation																									1 2.0
Myocardium, Infiltration Cellular, Mononuclear Cell	2	1	1	1	2	2	2	1	1	2	1	2	3	3	3	3	2	2	1	2	2	2	1	2	50 1.5
Myocardium, Necrosis	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50 1.0
Myocardium, Vacuolization Cytoplasmic	2	1	1	1	2	2	2	1	1	2	1	2	3	3	3	3	2	2	1	2	2	2	1	2	50 1.5

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Angiectasis																									1 3.0
Hyperplasia								2							3				1				3		11 1.7
Vacuolization Cytoplasmic							2								2	2			1	2	1	1	2		15 1.7
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hyperplasia																								2	1 2.0
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hyperplasia	1								1							1									10 1.0

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DAY ON TEST	ANIMAL ID																								* TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	4	7	5	6	5	7	7	5	6	6	5	6	7	7	5	7	7	6	6	7	4	0	7	5	
2	7	3	8	0	3	3	3	3	9	0	9	1	3	0	8	3	3	8	8	3	6	3	3	5	
3	9	1	1	3	2	1	1	9	4	5	7	6	1	9	2	1	0	3	3	1	9	9	0	3	
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>0 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	5	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0

Parathyroid Gland	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>43</b>	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Angiectasis	3		2	4			3	2	4	3	2	3	3			4			3	3	2		1		<b>32</b>	<b>2.6</b>	
Atrophy				2																					<b>1</b>	<b>2.0</b>	
Cyst			2		1									2				1	1					2	<b>16</b>	<b>1.4</b>	
Pars Distalis, Hyperplasia		1	3			1					2			2					2				2		<b>16</b>	<b>2.1</b>	
Pars Intermedia, Hyperplasia																									<b>1</b>	<b>2.0</b>	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>		
C-cell, Hyperplasia					1	1	2	2	2		1		1	1			2	1	1	1	2			1	<b>33</b>	<b>1.5</b>	

**GENERAL BODY SYSTEM**  
 NONE

**GENITAL SYSTEM**

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Cyst	2																								<b>1</b>	<b>2.0</b>
Hyperplasia									3	3															<b>2</b>	<b>3.0</b>
Inflammation	2			1	2	1		1	2		2		2	3			1	2	1	2			1	1	<b>32</b>	<b>1.4</b>
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Cyst																								3	<b>5</b>	<b>2.4</b>
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	

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 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 bis(2-Chloroethoxy)methane  
 CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	0																								* TOTALS
	7	4	7	5	6	5	7	7	5	6	6	5	6	7	7	5	7	7	6	6	7	4	0	7	
	2	7	3	8	0	3	3	3	3	9	0	9	1	3	0	8	3	3	8	8	3	6	3	3	5
	3	9	1	1	3	2	1	1	9	4	5	7	6	1	9	2	1	0	3	3	1	9	9	0	3
<b>FISCHER 344 RATS FEMALE</b> ANIMAL ID <b>0 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0

Atrophy																										<b>1</b>	<b>2.0</b>	
Inflammation, Suppurative																											<b>1</b>	<b>1.0</b>
Cervix, Myometrium, Hyperplasia									3																		<b>1</b>	<b>3.0</b>
Endometrium, Hyperplasia, Cystic	3		1															1								1	<b>6</b>	<b>1.7</b>

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>					
Atrophy																												<b>2</b>	<b>2.0</b>			
Hyperplasia	2		3																								3	<b>3</b>	<b>2.7</b>			
Lymph Node																																
Mediastinal, Hyperplasia, Lymphoid																													<b>3</b>	<b>1</b>	<b>1.0</b>	
Pancreatic, Ectasia																													3	<b>1</b>	<b>3.0</b>	
Pancreatic, Hyperplasia, Lymphoid																													3	<b>1</b>	<b>3.0</b>	
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	<b>0</b>		
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>		
Hyperplasia, Lymphoid																														1	<b>1</b>	<b>1.0</b>
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>		
Atrophy																																
Hematopoietic Cell Proliferation	2	1		1	2		2			1		2		2	2		1				2			2		2	2			<b>29</b>	<b>1.7</b>	<b>1.7</b>
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>49</b>		
Atrophy	4	2	4	2	2	3	2	4	3	3		4	4	4	4	3	4	4	4		2	4		2					<b>43</b>	<b>3.2</b>		

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TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 bis(2-Chloroethoxy)methane  
 CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		7	4	7	5	6	5	7	7	5	6	6	5	6	7	7	5	7	7	6	6	7	4	0	7	5
		2	7	3	8	0	3	3	3	3	9	0	9	1	3	0	8	3	3	8	8	3	6	3	3	5
		3	9	1	1	3	2	1	1	9	4	5	7	6	1	9	2	1	0	3	3	1	9	9	0	3
FISCHER 344 RATS FEMALE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0 MG/KG		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
		<b>* TOTALS</b>																								

**INTEGUMENTARY SYSTEM**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Hyperplasia				1															1		3						<b>5</b>	<b>1.4</b>
Inflammation					1																						<b>1</b>	<b>1.0</b>
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Control Dermis, Inflammation																										2	<b>1</b>	<b>2.0</b>
Control Epidermis, Hyperplasia																										2	<b>1</b>	<b>2.0</b>
Site Of Application - Dermis, Fibrosis																								1	1		<b>3</b>	<b>1.0</b>
Site Of Application - Epidermis, Hyperplasia																										2	<b>1</b>	<b>2.0</b>
Site Of Application - Epidermis, Ulcer																										2	<b>1</b>	<b>2.0</b>

**MUSCULOSKELETAL SYSTEM**

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Joint, Inflammation												1															<b>1</b>	<b>1.0</b>

**NERVOUS SYSTEM**

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>		
Hemorrhage																											3	<b>1</b>	<b>3.0</b>
Hydrocephalus																										3	<b>11</b>	<b>3.2</b>	
Hypothalamus, Compression																										2	<b>13</b>	<b>3.3</b>	

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 Page 79

TDMS No. 99028 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
Time Report Requested: 14:57:37  
First Dose M/F: 09/16/02 / 09/17/02  
Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	4	7	5	6	5	7	7	5	6	6	5	6	7	7	5	7	7	6	6	7	4	0	7	5
	2	7	3	8	0	3	3	3	3	9	0	9	1	3	0	8	3	3	8	8	3	6	3	3	5
	3	9	1	1	3	2	1	1	9	4	5	7	6	1	9	2	1	0	3	3	1	9	9	0	3
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>0 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	5
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
	<b>* TOTALS</b>																								

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50					
Congestion															2											1	2.0				
Inflammation																										1	18	1.1			
Thrombosis																												1	2.0		
Alveolar Epithelium, Hyperplasia																													1	2.0	
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	49					
Foreign Body																													1		
Inflammation																											2	10	1.5		
Olfactory Epithelium, Degeneration																													1	5	1.0
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Cataract																													1	3.0
Retina, Atrophy																1													2	2.0
Sclera, Metaplasia, Osseous																												2	7	1.6
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Inflammation																												1	5	1.0

**URINARY SYSTEM**

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A .. Autolysis precludes evaluation  
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2) Mild 4) Marked  
Page 80



TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 bis(2-Chloroethoxy)methane  
 CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
DAY ON TEST	7	4	7	5	6	5	7	7	5	6	6	5	6	7	7	5	7	7	6	6	7	4	0	7	5	
	2	7	3	8	0	3	3	3	3	9	0	9	1	3	0	8	3	3	8	8	3	6	3	3	5	
	3	9	1	1	3	2	1	1	9	4	5	7	6	1	9	2	1	0	3	3	1	9	9	0	3	
FISCHER 344 RATS FEMALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0 MG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	5	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	<b>* TOTALS</b>
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hydronephrosis																		3							1 3.0	
Nephropathy	2	1					2	1		1				1		1	1	2	2		1	1	1		30 1.3	
Renal Tubule, Cyst													2												1 2.0	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation																		3							1 3.0	

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 + .. Tissue examined microscopically  
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 I .. Insufficient tissue  
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 BLANK .. Not examined microscopically  
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 2) Mild 4) Marked  
 Page 81



TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 bis(2-Chloroethoxy)methane  
 CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	5	7	6	5	7	7	7	7	6	7	7	6	7	3	7	5	7	7	7	5	7	7	7
	3	3	9	3	0	8	3	3	3	3	2	3	3	8	3	8	1	3	3	3	3	9	3	1	3
	1	1	5	0	6	6	0	0	0	0	4	1	0	3	1	8	1	2	1	0	0	2	0	4	0
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>75 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>ANIMAL ID</b>	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5
Inflammation	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mixed Cell Focus				X				X																	
Necrosis																	1								
Bile Duct, Cyst		2																							
Bile Duct, Hyperplasia										1	2	2					1			1	1				
Centrilobular, Necrosis			3								3														
Mesentery			+	+								+			+							+			
Fat, Necrosis			4	3							3				2							3			
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia	2																								
Acinus, Atrophy			2						1			1					1		1					2	
Duct, Cyst							2										2								
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation			3																						
Ulcer			3									3													
Epithelium, Hyperplasia			1								3														
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ulcer			1																						

**CARDIOVASCULAR SYSTEM**

Blood Vessel +

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically M .. Missing tissue 1-4 .. Lesion qualified as:  
 x .. Lesion present A .. Autolysis precludes evaluation 1) Minimal 3) Moderate  
 I .. Insufficient tissue BLANK .. Not examined microscopically 2) Mild 4) Marked

TDMS No. 99028 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
Time Report Requested: 14:57:37  
First Dose M/F: 09/16/02 / 09/17/02  
Lab: BAT

DAY ON TEST	0 0																									
	7 7 5 7 6 5 7 7 7 7 6 7 7 6 7 3 7 5 7 7 7 5 7 7 7																									
3 3 9 3 0 8 3 3 3 3 2 3 3 8 3 8 1 3 3 3 3 9 3 1 3																										
1 1 5 0 6 6 0 0 0 0 4 1 0 3 1 8 1 2 1 0 0 2 0 4 0																										
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>75 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>ANIMAL ID</b>	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	<b>females (cont...)</b>

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cardiomyopathy	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Fibrosis	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	2	2	1	1	2	2	2
Thrombosis											3														
Myocardium, Infiltration Cellular, Mononuclear Cell	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	2	2	1	1	2	2	2
Myocardium, Necrosis	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Myocardium, Vacuolization Cytoplasmic	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	2	2	1	1	2	2	2

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia				1		1	1	1	1		1			2	1		2	2	2	1	1			2	2
Vacuolization Cytoplasmic			1									2		2				2	1		2			2	2
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia									1				2												
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia									1			1								1					
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	M	+	+	+	+	+	+
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis	3	1	2	3	2	3	2	2	2	2		2	2	2	2	3	2			3	4	1		4	3
Cyst		2	1					2	1	1	2			1		2						2	1	4	
Pars Distalis, Hyperplasia		1	2		2			1	1	2	2	3	2		3				2		1	2	1	3	2

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+ .. Tissue examined microscopically  
x .. Lesion present  
l .. Insufficient tissue  
M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically  
1-4 .. Lesion qualified as:  
1) Minimal 3) Moderate  
2) Mild 4) Marked

TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	ANIMAL ID																									females (cont...)
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	7	5	7	6	5	7	7	7	7	6	7	7	6	7	3	7	5	7	7	7	5	7	7	7	7	0
3	3	9	3	0	8	3	3	3	3	2	3	3	8	3	8	1	3	3	3	3	9	3	1	3	3	0
1	1	5	0	6	6	0	0	0	0	4	1	0	3	1	8	1	2	1	0	0	2	0	4	0	0	0
<hr/>																										
FISCHER 344 RATS FEMALE 75 MG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	0

Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
C-cell, Hyperplasia	2	1	1	1		1		2	2	2	2	1		1	2		2	1	1	1	1		1	2	2	
Follicle, Hyperplasia																						2				

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Cyst																										
Hyperplasia		3											2							2		2				
Inflammation	1				1	1	1	2	2	1	1	2	2		1		1	1		1			1	1	1	
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Atrophy																							4			
Cyst													2									1		2		
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Cervix, Endometrium, Hyperplasia																									3	
Endometrium, Hyperplasia, Cystic					2							2													1	

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
-------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 bis(2-Chloroethoxy)methane  
 CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

	DAY ON TEST																										
	0 7 3 1	0 7 3 1	0 5 9 5	0 7 3 0	0 6 8 6	0 5 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 7 3 0	0 6 2 4	0 7 3 1	0 7 3 0	0 6 8 3	0 7 3 1	0 3 8 8	0 7 3 1	0 5 3 2	0 7 3 3	0 7 3 3	0 7 3 3	0 5 9 2	0 7 3 0	0 7 1 0	0 7 3 0		
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>75 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5		
																											<b>females (cont...)</b>

Hyperplasia	2																								
Lymph Node Mediastinal, Ectasia	.....																								
Lymph Node, Mandibular	M M																								
Lymph Node, Mesenteric	+ +																								
Spleen Hematopoietic Cell Proliferation	+ 1 1 2 2 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 1 1 1 1																								
Thymus Atrophy	+ 4 4 4 4 3 2 4 3 4 4 4 4 4 3 4 4 4 2 4 4 3 3 3 2 3																								

**INTEGUMENTARY SYSTEM**

Mammary Gland	+ +																								
Skin	+ +																								
Dermis, Inflammation																									
Epidermis, Hyperplasia																									
Epidermis, Ulcer																									
Site Of Application - Dermis, Inflammation																									
Site Of Application - Epidermis, Hyperplasia																									
Site Of Application - Epidermis, Ulcer																									

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
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TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 bis(2-Chloroethoxy)methane  
 CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	ANIMAL ID																									females (cont...)
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	5	7	6	5	7	7	7	7	6	7	7	6	7	3	7	5	7	7	7	5	7	7	7	
	3	3	9	3	0	8	3	3	3	3	2	3	3	8	3	8	1	3	3	3	3	9	3	1	3	
	1	1	5	0	6	6	0	0	0	0	4	1	0	3	1	8	1	2	1	0	0	2	0	4	0	
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>75 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7		
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

**MUSCULOSKELETAL SYSTEM**

Bone +

**NERVOUS SYSTEM**

Brain +  
 Hydrocephalus 2 3 4 2 2  
 Hippocampus, Necrosis 2  
 Hypothalamus, Compression 4 4 4  
 Vein, Infiltration Cellular, Mononuclear Cell 2

**RESPIRATORY SYSTEM**

Lung +  
 Inflammation 1  
 Alveolar Epithelium, Hyperplasia 2 2 1  
 Bronchus, Hyperplasia 2  
 Nose | +  
 Foreign Body X  
 Inflammation 1 2 1 1 1 1 1  
 Olfactory Epithelium, Accumulation, Hyaline Droplet 2  
 Olfactory Epithelium, Degeneration 2 1

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 2) Mild 4) Marked  
 Page 87

TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

	DAY ON TEST																									females (cont...)
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	5	7	6	5	7	7	7	7	6	7	7	6	7	3	7	5	7	7	7	5	7	7	7	
	3	3	9	3	0	8	3	3	3	3	2	3	3	8	3	8	1	3	3	3	3	9	3	1	3	
	1	1	5	0	6	6	0	0	0	0	4	1	0	3	1	8	1	2	1	0	0	2	0	4	0	
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>75 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7		
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Glands, Cyst																2								

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cataract																								3
Retina, Atrophy			2																					3
Sclera, Metaplasia, Osseous																								3

Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation					1				1					1	1	1					1		1	
Capillary, Hyperplasia													1											

Lacrimal Gland																								
Hyperplasia																								2

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hydronephrosis																								
Inflammation, Suppurative																								
Nephropathy	1			1		1	1		1	2		1		1	2					1	1		1	1

Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
-----------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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 Page 88



TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 bis(2-Chloroethoxy)methane  
 CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	6	7	7	6	7	6	7	7	5	7	7	7	6	7	6	4	7	5	7	6	7	7	7	7
	3	5	3	3	2	0	6	3	3	7	3	3	3	2	3	3	1	3	7	3	0	3	3	3	3
	1	3	0	1	4	7	9	1	0	5	0	0	1	4	1	4	0	1	1	1	3	0	0	0	0
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
<b>75 MG/KG</b>																									
<b>* TOTALS</b>																									

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parasite Metazoan							1				1													
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parasite Metazoan																	3							
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis											1												1	1
Basophilic Focus	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Clear Cell Focus				X							X	X					X	X						
Degeneration, Cystic												1												
Eosinophilic Focus				X																	X	X		
Fatty Change						1	2	2						1		1				2				1
Fibrosis														1	1							1		
Hepatodiaphragmatic Nodule					X												X	X						

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 1) Minimal 3) Moderate  
 2) Mild 4) Marked

Page 89

TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 bis(2-Chloroethoxy)methane  
 CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	0																				* TOTALS				
	7	6	7	7	6	7	6	7	7	5	7	7	7	6	7	6	4	7	5	7		6	7	7	7
	3	5	3	3	2	0	6	3	3	7	3	3	3	2	3	3	1	3	7	3	0	3	3	3	3
	1	3	0	1	4	7	9	1	0	5	0	0	1	4	1	4	0	1	1	1	3	0	0	0	0
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>75 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
Inflammation	1	1	1	1	1			1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	45
Mixed Cell Focus		X		X								X	X	X		X							X	X	10
Necrosis																									1
Bile Duct, Cyst																									1
Bile Duct, Hyperplasia						2	2	1	1		1		1	1	1	1		1		1		2			18
Centrilobular, Necrosis						3																			3
Mesentery					+	+	+		+						+			+		+	+	+		13	
Fat, Necrosis					3	2	3								2			2		2	2	2		12	
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia																									1
Acinus, Atrophy										1								1		1				12	
Duct, Cyst												1					1		2	1				6	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation										3										3				3	
Ulcer										3														3	
Epithelium, Hyperplasia																								2	
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Ulcer																								1	

**CARDIOVASCULAR SYSTEM**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
--------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 bis(2-Chloroethoxy)methane  
 CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	0																								* TOTALS	
	7	6	7	7	6	7	6	7	7	5	7	7	7	6	7	6	4	7	5	7	6	7	7	7		7
	3	5	3	3	2	0	6	3	3	7	3	3	3	2	3	3	1	3	7	3	0	3	3	3	3	
	1	3	0	1	4	7	9	1	0	5	0	0	1	4	1	4	0	1	1	1	3	0	0	0	0	
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>75 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	0	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cardiomyopathy		1	1	1	1	1	1	1	1	1	1	2		1	1	1	1	1	1	2	1	1	2	2	1	45 1.1
Fibrosis	2	3	3	3	2	3	3	2	2	2	2	3	2	2	2	2	1	1	2	2	2	2	3	3	2	50 2.0
Thrombosis																										1 3.0
Myocardium, Infiltration Cellular, Mononuclear Cell	2	3	3	3	2	3	3	2	2	2	2	3	2	2	2	2	1	1	2	2	2	2	3	3	2	50 2.0
Myocardium, Necrosis	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50 1.0
Myocardium, Vacuolization Cytoplasmic	2	3	3	3	2	3	3	2	2	2	2	3	2	2	2	2	1	1	2	2	2	2	3	3	2	50 2.0

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia	2	2	2			2	1	2			2						1						2	1	1	26 1.5
Vacuolization Cytoplasmic	2	2	2			1	1		1		1												1	1		17 1.5
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia										1																3 1.3
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia				1													1							1		6 1.0
Parathyroid Gland	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	46	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Angiectasis	3	2	2	3	4	4			3			1	2	4		4	1			4	2	1	1	2	3	39 2.5
Cyst							2	2			1	1	2		1			2			2			1	1	21 1.6
Pars Distalis, Hyperplasia			2					1	3	2	1	2				1		1				2		3		26 1.8

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 1) Minimal 3) Moderate  
 2) Mild 4) Marked  
 Page 91

TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	ANIMAL ID																								* TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	6	7	7	6	7	6	7	7	5	7	7	7	6	7	6	4	7	5	7	6	7	7	7	7	50
3	5	3	3	2	0	6	3	3	7	3	3	3	2	3	3	1	3	7	3	0	3	3	3	3	38
1	3	0	1	4	7	9	1	0	5	0	0	1	4	1	4	0	1	1	1	3	0	0	0	0	2

**FISCHER 344 RATS FEMALE**  
**75 MG/KG**

Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
C-cell, Hyperplasia	1	1	1		1		1			1	1	2	2	2	1	1		2	1	1	1		1	2	38
Follicle, Hyperplasia									2																2

**GENERAL BODY SYSTEM**  
 NONE

**GENITAL SYSTEM**

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cyst								2										3							2
Hyperplasia										2						1									6
Inflammation	1	2		1			2		1	2		1	2	1	1		2	2	1			2	1	32	

  

Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Atrophy		4																							2
Cyst										2															4

  

Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cervix, Endometrium, Hyperplasia																									1
Endometrium, Hyperplasia, Cystic																						2			4

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
-------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

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 I .. Insufficient tissue  
 M .. Missing tissue  
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 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	6	7	7	6	7	6	7	7	5	7	7	7	6	7	6	4	7	5	7	6	7	7	7
	3	5	3	3	2	0	6	3	3	7	3	3	3	2	3	3	1	3	7	3	0	3	3	3
	1	3	0	1	4	7	9	1	0	5	0	0	1	4	1	4	0	1	1	1	3	0	0	0
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>75 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9
																								<b>* TOTALS</b>

Hyperplasia																								<b>1 2.0</b>
Lymph Node Mediastinal, Ectasia	+																							<b>1 3.0</b>
Lymph Node, Mandibular	M																							<b>0</b>
Lymph Node, Mesenteric	+																							<b>50</b>
Spleen Hematopoietic Cell Proliferation	+																							<b>50 37 1.4</b>
Thymus Atrophy	+																							<b>50 50 3.5</b>

**INTEGUMENTARY SYSTEM**

Mammary Gland	+																							<b>50</b>
Skin	+																							<b>50</b>
Dermis, Inflammation																								<b>1 2.0</b>
Epidermis, Hyperplasia																								<b>1 2.0</b>
Epidermis, Ulcer																								<b>1 2.0</b>
Site Of Application - Dermis, Inflammation																								<b>2 1.5</b>
Site Of Application - Epidermis, Hyperplasia																								<b>2 2.5</b>
Site Of Application - Epidermis, Ulcer																								<b>1 2.0</b>

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 + .. Tissue examined microscopically  
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 Page 93

TDMS No. 99028 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
Time Report Requested: 14:57:37  
First Dose M/F: 09/16/02 / 09/17/02  
Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	6	7	7	6	7	6	7	7	5	7	7	7	6	7	6	4	7	5	7	6	7	7	7	7	
	3	5	3	3	2	0	6	3	3	7	3	3	3	2	3	3	1	3	7	3	0	3	3	3	3	
	1	3	0	1	4	7	9	1	0	5	0	0	1	4	1	4	0	1	1	1	3	0	0	0	0	
FISCHER 344 RATS FEMALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
75 MG/KG	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	
																									* TOTALS	

MUSCULOSKELETAL SYSTEM

Bone + 50

NERVOUS SYSTEM

Brain + 50  
Hydrocephalus 4 4 2 3 2 3 3 4 4 14 3.0  
Hippocampus, Necrosis 1 2.0  
Hypothalamus, Compression 4 4 3 2 3 3 4 4 4 4 12 3.6  
Vein, Infiltration Cellular, Mononuclear Cell 1 2.0

RESPIRATORY SYSTEM

Lung + 50  
Inflammation 1 31 1.0  
Alveolar Epithelium, Hyperplasia 2 7 1.6  
Bronchus, Hyperplasia 1 2.0  
Nose + 49  
Foreign Body X 2  
Inflammation 1 1 1 1 1 2 1 1 14 1.1  
Olfactory Epithelium, Accumulation, Hyaline Droplet 1 2.0  
Olfactory Epithelium, Degeneration 1 1 4 1.3

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2) Mild 4) Marked  
Page 94



TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	0																								
	7	5	7	7	7	7	6	7	7	7	3	7	7	7	6	5	5	6	6	7	7	6	7	6	7
3	5	3	0	3	3	5	3	3	3	3	3	3	3	5	6	6	7	3	1	3	1	3	9	3	
1	0	0	2	0	1	5	1	0	0	2	1	0	1	3	7	1	3	5	6	1	6	0	7	0	
.....																									
FISCHER 344 RATS FEMALE 150 MG/KG ANIMAL ID	0																								
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	
1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	
.....																									
																									females (cont...)

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon Parasite Metazoan	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum Parasite Metazoan	+	+	+	+	+	+	+	1	+	1	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis																								
Basophilic Focus	X	X	X		X	X	X	X	X		X	X	X		X	X	X	X	X		X		X	
Clear Cell Focus	X			X	X	X																X		
Eosinophilic Focus				X	X																			
Fatty Change								1							2									
Fibrosis				1										1						1				1
Hepatodiaphragmatic Nodule		X										X	X									X		
Inflammation	1	1	1	2	1	1	1	1	1	1	1	1	1				1	1	1		1		1	

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TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

	DAY ON TEST																									females (cont...)	
	0 7 3 1	0 5 5 0	0 7 3 0	0 7 0 2	0 7 3 0	0 7 3 1	0 6 5 5	0 7 3 1	0 7 3 0	0 7 3 0	0 3 3 2	0 7 3 1	0 7 3 0	0 7 3 1	0 6 5 3	0 5 6 7	0 5 6 1	0 6 6 3	0 6 7 5	0 7 3 6	0 7 1 1	0 6 3 2	0 7 1 2	0 6 3 4	0 7 9 5		
<b>FISCHER 344 RATS FEMALE</b> <b>150 MG/KG</b>	0 0 3 0 1	0 0 3 0 2	0 0 3 0 3	0 0 3 0 4	0 0 3 0 5	0 0 3 0 6	0 0 3 0 7	0 0 3 0 8	0 0 3 0 9	0 0 3 0 0	0 0 3 0 1	0 0 3 0 1	0 0 3 0 2	0 0 3 0 3	0 0 3 0 4	0 0 3 0 5	0 0 3 0 6	0 0 3 0 7	0 0 3 0 8	0 0 3 0 9	0 0 3 0 0	0 0 3 0 1	0 0 3 0 2	0 0 3 0 3	0 0 3 0 4	0 0 3 0 5	
Mixed Cell Focus	X	X	X			X																					
Necrosis																											2
Bile Duct, Cyst																											
Bile Duct, Hyperplasia	1			2				1	1									2		1	4					2	
Centrilobular, Necrosis															2												
Mesentery	+																										
Fat, Necrosis	3													2	2												2
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Acinus, Atrophy				1				1						2	2												
Duct, Cyst																											
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation																											
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

**CARDIOVASCULAR SYSTEM**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cardiomyopathy	2	1		1	1	1	1	2	1	1	1	1	1	1	2		1	1	1	2	1		1		1		1
Fibrosis	3	2	3	2	2	2	2	3	3	3	2	3	2	2	2	3	2	2	2	2	2	2	2	1	3	2	2
Myocardium, Infiltration Cellular,	3	2	3	2	2	2	2	3	3	3	2	3	2	2	2	3	2	2	2	2	2	2	2	1	3	2	2

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TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 bis(2-Chloroethoxy)methane  
 CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
FISCHER 344 RATS FEMALE		7	5	7	7	7	7	6	7	7	7	3	7	7	7	6	5	5	6	6	7	7	6	7	6	7
150 MG/KG		3	5	3	0	3	3	5	3	3	3	3	3	3	3	5	6	6	7	3	1	3	1	3	9	3
ANIMAL ID		1	0	0	2	0	1	5	1	0	0	2	1	0	1	3	7	1	3	5	6	1	6	0	7	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5
																										<b>females (cont...)</b>

Mononuclear Cell																										
Myocardium, Necrosis	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Myocardium, Vacuolization Cytoplasmic	3	2	3	2	2	2	2	3	3	3	2	3	2	2	2	3	2	2	2	2	2	2	1	3	2	

### ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia	1					1	1					2					1			1	2				
Vacuolization Cytoplasmic		1	1			1						2	2						2		2				
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																									
Necrosis																	3								
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia						1	1																		
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis				3	2		3	2	2	2		3		3	2		2	4				1			2
Cyst		1			2		2			2	1		1		2					2		2			2
Pars Distalis, Hyperplasia	2	1			3					3	3				3	1	2				2		2		
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy																									
Cyst																							1		
C-cell, Hyperplasia	1				1		1		1	2		1	1		1	1				2	2	1	2	2	2

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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x .. Lesion present

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M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	5	7	7	7	7	6	7	7	7	3	7	7	7	6	5	5	6	6	7	7	6	7	6	7
	3	5	3	0	3	3	5	3	3	3	3	3	3	3	5	6	6	7	3	1	3	1	3	9	3
	1	0	0	2	0	1	5	1	0	0	2	1	0	1	3	7	1	3	5	6	1	6	0	7	0
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>150 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

females (cont...)

Follicle, Hyperplasia

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst	2																							
Hyperplasia								2		1				2										
Inflammation	2		1		1		2	2		1	2	2	1		2	1	1	2	1	2		1	1	
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy																								
Cyst															1							2		
Bilateral, Cyst																								
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Endometrium, Hyperplasia, Cystic				1							1													

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																								
Lymph Node										+												+	+	+

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 + .. Tissue examined microscopically  
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Species/Strain: RATS/F 344

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First Dose M/F: 09/16/02 / 09/17/02  
Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	5	7	7	7	7	6	7	7	7	3	7	7	7	6	5	5	6	6	7	7	6	7	6	7
	3	5	3	0	3	3	5	3	3	3	3	3	3	3	5	6	6	7	3	1	3	1	3	9	3
	1	0	0	2	0	1	5	1	0	0	2	1	0	1	3	7	1	3	5	6	1	6	0	7	0
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>150 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5
																								<b>females (cont...)</b>	

Deep Cervical, Hyperplasia, Lymphoid																								2	
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hematopoietic Cell Proliferation	1	3	1	1	1		2	2	2	2		2	2	3				1	2		2		1	1	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy	4	2	3	3	4	4	4	3	4	4	1	3	4	3	4	3	4	4	1	4	3		4	3	4

**INTEGUMENTARY SYSTEM**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia					3																			
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst Epithelial Inclusion				X																				
Dermis, Inflammation														2										
Epidermis, Ulcer														2										
Sebaceous Gland, Hyperplasia																								
Site Of Application - Dermis, Fibrosis																								
Site Of Application - Dermis, Inflammation					2								2						2					
Site Of Application - Epidermis, Hyperkeratosis																								
Site Of Application - Epidermis, Hyperplasia					2							2							2					

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TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	5	7	7	7	7	6	7	7	7	3	7	7	7	6	5	5	6	6	7	7	6	7	6	7
	3	5	3	0	3	3	5	3	3	3	3	3	3	3	5	6	6	7	3	1	3	1	3	9	3
	1	0	0	2	0	1	5	1	0	0	2	1	0	1	3	7	1	3	5	6	1	6	0	7	0
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>150 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

females (cont...)

Site Of Application - Epidermis, Ulcer  
 Subcutaneous Tissue, Necrosis

2 2 2

**MUSCULOSKELETAL SYSTEM**

Bone +

**NERVOUS SYSTEM**

Brain +  
 Hydrocephalus 3 3 4 3 3  
 Hypothalamus, Compression 4 4 4 4

**RESPIRATORY SYSTEM**

Lung +  
 Congestion 2  
 Inflammation 1 1 1 1 1 1 1 1 1 1 1 1  
 Metaplasia, Osseous 1 1  
 Alveolar Epithelium, Hyperplasia 1 1  
 Alveolar Epithelium, Metaplasia, Squamous 1 1  
 Nose +  
 Foreign Body 1 1 1 1  
 Inflammation 1 1 1 2 1  
 Olfactory Epithelium, Accumulation,

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TDMS No. 99028 - 05  
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 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 bis(2-Chloroethoxy)methane  
 CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	5	7	7	7	7	6	7	7	7	3	7	7	7	6	5	5	6	6	7	7	6	7	6	7
	3	5	3	0	3	3	5	3	3	3	3	3	3	3	5	6	6	7	3	1	3	1	3	9	3
	1	0	0	2	0	1	5	1	0	0	2	1	0	1	3	7	1	3	5	6	1	6	0	7	0
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>150 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

females  
(cont...)

Hyaline Droplet																									
Olfactory Epithelium, Degeneration				1	1	1				1	1	1	1				1			2	1				
Olfactory Epithelium, Metaplasia, Respiratory																									
Respiratory Epithelium, Degeneration																									
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cataract			3	3																					
Retina, Atrophy			3	3											2										
Sclera, Metaplasia, Osseous			2			1	1																		
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia														1											
Inflammation			1				1		1				1						1						

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hydronephrosis			3																						
Nephropathy	1		1	1	1	1	2	2	1	1		1	1	1		1	1	1					1	1	
Urinary Bladder	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Transitional Epithelium, Hyperplasia														2											

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 bis(2-Chloroethoxy)methane  
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 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	5	7	7	7	7	6	7	7	7	3	7	7	7	6	5	5	6	6	7	7	6	7	6	7
	3	5	3	0	3	3	5	3	3	3	3	3	3	3	5	6	6	7	3	1	3	1	3	9	3
	1	0	0	2	0	1	5	1	0	0	2	1	0	1	3	7	1	3	5	6	1	6	0	7	0
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>150 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5
																									<b>females (cont...)</b>

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 Page 103





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Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	7	7	6	7	7	6	5	6	7	6	7	7	7	7	7	7	7	7	7	5	
	3	3	3	3	3	3	2	6	3	0	1	1	3	3	6	3	2	3	3	3	1	3	3	3	2	
	1	1	0	0	1	1	3	8	1	2	6	3	7	0	0	1	3	1	0	0	1	1	0	1	6	
.....																										
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>150 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	
.....																										
Mixed Cell Focus	X					X		X						X		X							X			
Necrosis			1																							
Bile Duct, Cyst																						1				
Bile Duct, Hyperplasia	1	1			2			3	1					3								2	1		1	
Centrilobular, Necrosis								2					2	2								2				
.....																										
Mesentery	+			+		+	+		+		+				+		+	+		+	+		+	+	17	
Fat, Necrosis	2			2		3	3		2		4				1		1	2				3	3		4	
.....																										
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Acinus, Atrophy														1	2			1								
Duct, Cyst																	2								9	
.....																										
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
.....																										
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation											2														1	
.....																										
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
.....																										
<b>CARDIOVASCULAR SYSTEM</b>																										
.....																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
.....																										
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cardiomyopathy	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	42	
Fibrosis	1	1	1	2	2	2	2	2	2	1	2	2	2	2	1	2	2	2	2	3	1	1	2	2	50	
Myocardium, Infiltration Cellular,	1	1	1	2	2	2	2	2	2	1	2	2	2	2	1	2	2	2	2	3	1	1	2	2	50	

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+ .. Tissue examined microscopically  
x .. Lesion present  
l .. Insufficient tissue  
M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically  
1-4 .. Lesion qualified as:  
1) Minimal 3) Moderate  
2) Mild 4) Marked

TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 bis(2-Chloroethoxy)methane  
 CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	ANIMAL ID																								* TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	7	7	6	7	7	6	5	6	7	6	7	7	7	7	7	7	7	7	5	
	3	3	3	3	3	3	2	6	3	0	1	1	3	3	6	3	2	3	3	3	1	3	3	2	
	1	1	0	0	1	1	3	8	1	2	6	3	7	0	0	1	3	1	0	0	1	1	0	6	
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>150 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0

Mononuclear Cell Myocardium, Necrosis	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	<b>50</b>	<b>1.0</b>	
Myocardium, Vacuolization Cytoplasmic	1	1	1	2	2	2	2	2	2	1	2	2	2	2	1	2	2	2	2	3	1	1	2	2	<b>50</b>	<b>2.0</b>

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>		
Hyperplasia	2					3				2	2			1		2	2	1		2	2		2		<b>18</b>	<b>1.7</b>	
Vacuolization Cytoplasmic	2					3				2	2	1			2	1	1		2	2	1		1	2	<b>3</b>	<b>1.7</b>	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>		
Hyperplasia				1						2						2									<b>3</b>	<b>1.7</b>	
Necrosis																									<b>1</b>	<b>3.0</b>	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>		
Hyperplasia																1	1	1							<b>5</b>	<b>1.0</b>	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>48</b>		
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>		
Angiectasis		2	2	2	2		3	3	2	2		2	3	2		2		2	3	2	2		2	3	<b>32</b>	<b>2.3</b>	
Cyst	1		1	1		1	2									1	2								<b>17</b>	<b>1.5</b>	
Pars Distalis, Hyperplasia			3	1		2					2			1					2	2		2	3		<b>19</b>	<b>2.1</b>	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>		
Atrophy							3																		<b>1</b>	<b>3.0</b>	
Cyst																									<b>1</b>	<b>1.0</b>	
C-cell, Hyperplasia	1		1		1	2	1	2	2		1		1	1		2	1	1	1	1	1	1	2	1	<b>34</b>	<b>1.3</b>	

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 I .. Insufficient tissue  
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 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked  
 Page 106

TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 bis(2-Chloroethoxy)methane  
 CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	7	7	7	7	7	7	6	7	7	6	5	6	7	6	7	7	7	7	7	7	7	7	7	7	5			
	3	3	3	3	3	3	2	6	3	0	1	1	3	3	6	3	2	3	3	3	1	3	3	3	2			
	1	1	0	0	1	1	3	8	1	2	6	3	7	0	0	1	3	1	0	0	1	1	0	1	6			
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
<b>150 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
ANIMAL ID	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3			
	2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	5			
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	<b>* TOTALS</b>		
Follicle, Hyperplasia	3			1									1															<b>3 1.7</b>

**GENERAL BODY SYSTEM**  
 NONE

**GENITAL SYSTEM**

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Cyst																										2	<b>2 2.0</b>
Hyperplasia																										2	<b>6 1.8</b>
Inflammation	1		1	1	1	2	1	1	2	1		1	1	1	1	2	1	2	2	1	2	1	1	1	1	<b>40 1.4</b>	
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Atrophy																										4	<b>2 4.0</b>
Cyst		2	2		2							2														2	<b>7 1.7</b>
Bilateral, Cyst																										2	<b>1 2.0</b>
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Endometrium, Hyperplasia, Cystic																										1	<b>4 1.0</b>

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Hyperplasia																										3	<b>2 3.0</b>
Lymph Node																										+	<b>5</b>

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 2) Mild 4) Marked

TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 bis(2-Chloroethoxy)methane  
 CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	7	7	6	7	7	6	5	6	7	6	7	7	7	7	7	7	7	7	7	5	0
	3	3	3	3	3	3	2	6	3	0	1	1	3	3	6	3	2	3	3	3	1	3	3	3	2	0
	1	1	0	0	1	1	3	8	1	2	6	3	7	0	0	1	3	1	0	0	1	1	0	1	6	0
.....																										
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>150 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	<b>* TOTALS</b>

Deep Cervical, Hyperplasia, Lymphoid **1 2.0**

Lymph Node, Mandibular M 0

Lymph Node, Mesenteric + 50

Spleen  
Hematopoietic Cell Proliferation + 50  
1 1 1 2 34 1.6

Thymus  
Atrophy + 50  
4 4 4 3 3 3 3 4 4 1 4 3 3 4 3 3 4 4 4 4 4 4 4 3 2 47 3.4

**INTEGUMENTARY SYSTEM**

Mammary Gland  
Hyperplasia + 50  
2 1 3 2.0

Skin + 50

Cyst Epithelial Inclusion																										1
Dermis, Inflammation																										1 2.0
Epidermis, Ulcer																										1 2.0
Sebaceous Gland, Hyperplasia																							1			1 1.0
Site Of Application - Dermis, Fibrosis																								2		1 2.0
Site Of Application - Dermis, Inflammation																										3 2.0
Site Of Application - Epidermis, Hyperkeratosis																										1 1.0
Site Of Application - Epidermis, Hyperplasia																								2 1	5 1.8	

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BLANK .. Not examined microscopically  
Page 108

1-4 .. Lesion qualified as:  
1) Minimal 3) Moderate  
2) Mild 4) Marked

**TDMS No.** 99028 - 05  
**Test Type:** CHRONIC  
**Route:** SKIN APPLICATION  
**Species/Strain:** RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

bis(2-Chloroethoxy)methane

**CAS Number:** 111-91-1

**Date Report Requested:** 11/12/2007  
**Time Report Requested:** 14:57:37  
**First Dose M/F:** 09/16/02 / 09/17/02  
**Lab:** BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	6	7	7	6	5	6	7	6	7	7	7	7	7	7	7	7	7	7	7	5
	3	3	3	3	3	3	2	6	3	0	1	1	3	3	6	3	2	3	3	3	1	3	3	3	2		
	1	1	0	0	1	1	3	8	1	2	6	3	7	0	0	1	3	1	0	0	1	1	0	1	6		
.....																											
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>150 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>ANIMAL ID</b>	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	5	5
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	0	
																											<b>* TOTALS</b>

Site Of Application - Epidermis, Ulcer  
 Subcutaneous Tissue, Necrosis

3 2.0  
 1 3.0

**MUSCULOSKELETAL SYSTEM**

Bone + **50**

**NERVOUS SYSTEM**

Brain + **50**  
 Hydrocephalus 4 4 4 **8 3.5**  
 Hypothalamus, Compression 4 4 4 **8 4.0**

**RESPIRATORY SYSTEM**

Lung + **50**  
 Congestion 2 **2 2.0**  
 Inflammation 1 1 1 3 1 1 1 1 2 1 1 1 **24 1.1**  
 Metaplasia, Osseous 1 1.0  
 Alveolar Epithelium, Hyperplasia 2 2 1 1 2 **7 1.4**  
 Alveolar Epithelium, Metaplasia, Squamous 2 **3 1.3**

Nose + **50**  
 Foreign Body X X **2**  
 Inflammation 2 1 1 1 1 1 1 2 1 2 **16 1.3**  
 Olfactory Epithelium, Accumulation, 2 **1 2.0**

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 2) Mild 4) Marked

TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		7	7	7	7	7	7	6	7	7	6	5	6	7	6	7	7	7	7	7	7	7	7	7	5	0	
		3	3	3	3	3	2	6	3	0	1	1	3	3	6	3	2	3	3	3	1	3	3	3	2	0	
		1	1	0	0	1	1	3	8	1	2	6	3	7	0	0	1	3	1	0	0	1	1	0	1	6	
<b>FISCHER 344 RATS FEMALE</b>		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
<b>150 MG/KG</b>		2	2	2	2	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5	0	
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	

\* TOTALS

Hyaline Droplet																																			
Olfactory Epithelium, Degeneration																																			
Olfactory Epithelium, Metaplasia, Respiratory																																			
Respiratory Epithelium, Degeneration																																			
Trachea																																			

**SPECIAL SENSES SYSTEM**

Eye																																				
Cataract																																				
Retina, Atrophy																																				
Sclera, Metaplasia, Osseous																																				
Harderian Gland																																				
Hyperplasia																																				
Inflammation																																				

**URINARY SYSTEM**

Kidney																																				
Hydronephrosis																																				
Nephropathy																																				
Urinary Bladder																																				
Transitional Epithelium, Hyperplasia																																				

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TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 bis(2-Chloroethoxy)methane  
 CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
DAY ON TEST	7	7	7	7	7	7	7	6	7	7	6	5	6	7	6	7	7	7	7	7	7	7	7	7	5		
	3	3	3	3	3	3	2	6	3	0	1	1	3	3	6	3	2	3	3	3	1	3	3	3	2		
	1	1	0	0	1	1	3	8	1	2	6	3	7	0	0	1	3	1	0	0	1	1	0	1	6		
.....																											
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>150 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	5	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	<b>* TOTALS</b>	

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Page 111

TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
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 Lab: BAT

	DAY ON TEST																									
	0731	0016	0011	0017	0077	0077	0076	0073	0073	0076	0057	0071	0061	0061	0022	0006	0033	0033	0033	0026	0033	0033	0024	0006		
FISCHER 344 RATS FEMALE 300 MG/KG	0031	0005	0003	0004	0005	0006	0007	0008	0009	0000	0001	0002	0003	0004	0005	0006	0007	0008	0009	0000	0001	0002	0003	0004	0005	females (cont...)

**ALIMENTARY SYSTEM**

Esophagus	+ +																								
Intestine Large, Cecum	+ +																								
Intestine Large, Colon Parasite Metazoan	+ +																								
Intestine Large, Rectum Parasite Metazoan	+ +																								
Intestine Small, Duodenum	+ +																								
Intestine Small, Ileum	+ +																								
Intestine Small, Jejunum	+ +																								
Liver	+ +																								
Angiectasis																									
Basophilic Focus	X     X                     X X X X     X X                     X X X     X X X																								
Clear Cell Focus																									
Eosinophilic Focus																									
Fatty Change	2                                     1																								
Fibrosis	1																								
Hepatodiaphragmatic Nodule																									
Inflammation	1     1                     1 1 1 1     1 1 1                     1 1 1     1 1 1 1																								

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 + .. Tissue examined microscopically                     M .. Missing tissue                     1-4 .. Lesion qualified as:  
 x .. Lesion present                     A .. Autolysis precludes evaluation                     1) Minimal   3) Moderate  
 I .. Insufficient tissue                     BLANK .. Not examined microscopically                     2) Mild      4) Marked



TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 bis(2-Chloroethoxy)methane  
 CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	ANIMAL ID																									females (cont...)
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	1	6	1	1	7	7	7	6	7	0	5	7	1	6	1	1	2	7	7	6	3	7	4	7		
3	1	2	2	1	1	3	3	7	3	6	5	3	8	6	2	0	6	3	3	3	2	3	6	3		
1	5	0	1	7	6	0	1	4	1	7	0	0	9	2	1	9	2	1	1	0	6	1	4	0		
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>300 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7		
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4		

Mixed Cell Focus	X																								
Necrosis	1																								
Bile Duct, Hyperplasia	1 2 1 2 1 1																								
Centrilobular, Necrosis	2 2 1 1																								
Mesentery																									
Fat, Necrosis																									
Pancreas	+ +																								
Inflammation																									
Acinus, Atrophy	1 1																								
Duct, Cyst	1																								
Salivary Glands	+ +																								
Stomach, Forestomach	+ +																								
Inflammation																									
Ulcer																									
Stomach, Glandular	+ +																								
Fibrosis																									
Inflammation																									
Mineralization	3																								
Ulcer	2																								
	3																								
Tongue	+																								

**CARDIOVASCULAR SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99028 - 05  
Test Type: CHRONIC  
Route: SKIN APPLICATION  
Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
Time Report Requested: 14:57:37  
First Dose M/F: 09/16/02 / 09/17/02  
Lab: BAT

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>FISCHER 344 RATS FEMALE</b> <b>300 MG/KG</b>	ANIMAL ID	7	1	6	1	1	7	7	7	6	7	0	5	7	1	6	1	1	2	7	7	6	3	7	4	7
		3	1	2	2	1	1	3	3	7	3	6	5	3	8	6	2	0	6	3	3	3	2	3	6	3
		1	5	0	1	7	6	0	1	4	1	7	0	0	9	2	1	9	2	1	1	0	6	1	4	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

females (cont...)

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cardiomyopathy	1	1	2	2	3	2	2	2	2	2	1	2	1	1	2	1	1	2		1			2	1	2
Fibrosis	2	1	2	2	3	2	2	3	3	2	2	2	2	2	2	2	3	1	3	3	1	2	3	2	3
Myocardium, Infiltration Cellular, Mononuclear Cell	2	1	2	2	3	2	2	3	3	2	2	2	2	2	2	2	3	1	3	3	1	2	3	2	3
Myocardium, Necrosis	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Myocardium, Vacuolization Cytoplasmic	2	1	2	2	3	2	2	3	3	2	2	2	2	2	2	2	3	1	3	3	1	2	3	2	3

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis																									
Hemorrhage																3						2			
Hyperplasia									3				1					1		2	1		2		2
Necrosis				3	3											3	2								
Vacuolization Cytoplasmic									1	2				2	1				1	1			2		1
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																									
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia	1								1										1	1					
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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2) Mild 4) Marked  
Page 114

TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 bis(2-Chloroethoxy)methane  
 CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
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 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	0 0																								
	7 1 6 1 1 7 7 7 6 7 0 5 7 1 6 1 1 2 7 7 6 3 7 4 7																								
FISCHER 344 RATS FEMALE 300 MG/KG	3 1 2 2 1 1 3 3 7 3 6 5 3 8 6 2 0 6 3 3 3 2 3 6 3																								
	1 5 0 1 7 6 0 1 4 1 7 0 0 9 2 1 9 2 1 1 0 6 1 4 0																								
ANIMAL ID	0 0																								
	0 0																								
	3 3																								
	5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 7 7 7 7 7 7																								
	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5																								
	females (cont...)																								
Pituitary Gland	+ +																								
Angiectasis	2 2																								
Cyst	2 2 1																								
Hemorrhage																									
Pars Distalis, Hyperplasia	1 2 2 3 2 3																								
Thyroid Gland	+ +																								
C-cell, Hyperplasia	1 1																								

**GENERAL BODY SYSTEM**  
 NONE

**GENITAL SYSTEM**

Clitoral Gland	+ +																								
Hyperplasia	1 1																								
Inflammation	2 1 1 3 1 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1																								
Ovary	+ +																								
Cyst	2 2																								
Uterus	+ +																								
Endometrium, Hyperplasia, Cystic	1 1																								
Vagina	+																								

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TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

bis(2-Chloroethoxy)methane

CAS Number: 111-91-1

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 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	1	6	1	1	7	7	7	6	7	0	5	7	1	6	1	1	2	7	7	6	3	7	4	7
	3	1	2	2	1	1	3	3	7	3	6	5	3	8	6	2	0	6	3	3	3	2	3	6	3
	1	5	0	1	7	6	0	1	4	1	7	0	0	9	2	1	9	2	1	1	0	6	1	4	0
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>300 MG/KG</b>	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

females  
(cont...)

Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Site Of Application - Dermis, Fibrosis																									
Site Of Application - Dermis, Inflammation																									
Site Of Application - Epidermis, Hyperplasia																									
Site Of Application - Epidermis, Ulcer																									

**MUSCULOSKELETAL SYSTEM**

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Joint, Inflammation																									

**NERVOUS SYSTEM**

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hydrocephalus																									
Hypothalamus, Compression																									

Peripheral Nerve

Spinal Cord

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Congestion																									

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 2) Mild 4) Marked  
 Page 117

TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 bis(2-Chloroethoxy)methane  
 CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
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 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	0 0																									females (cont...)
	7 1 6 1 1 7 7 7 6 7 0 5 7 1 6 1 1 2 7 7 6 3 7 4 7 3 1 2 2 1 1 3 3 7 3 6 5 3 8 6 2 0 6 3 3 3 2 3 6 3 1 5 0 1 7 6 0 1 4 1 7 0 0 9 2 1 9 2 1 1 0 6 1 4 0																									
<b>FISCHER 344 RATS FEMALE</b> <b>300 MG/KG</b>	0 0																									
	0 0																									
	3 3																									
	5 5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 7 7 7 7 7																									
	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5																									
Inflammation Alveolar Epithelium, Hyperplasia	1 1																									
Nose Inflammation Glands, Cyst Olfactory Epithelium, Degeneration Olfactory Epithelium, Metaplasia, Respiratory Olfactory Epithelium, Metaplasia, Squamous	+ + + + + A + 1 3 2 1 4 2 2 4 4 1 2 1 3 2 2 2 1 2 3 3 3 3 1 1 3 3																									
Trachea	+ +																									
<b>SPECIAL SENSES SYSTEM</b>																										
Eye Cataract Retina, Atrophy Sclera, Metaplasia, Osseous	+ 2 3 3 1 3																									
Harderian Gland Inflammation	+ 1 1																									
Zymbal's Gland	+ +																									

**URINARY SYSTEM**

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 2) Mild 4) Marked  
 Page 118

TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 bis(2-Chloroethoxy)methane  
 CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
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 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
DAY ON TEST		7	1	6	1	1	7	7	7	6	7	0	5	7	1	6	1	1	2	7	7	6	3	7	4	7
		3	1	2	2	1	1	3	3	7	3	6	5	3	8	6	2	0	6	3	3	3	2	3	6	3
		1	5	0	1	7	6	0	1	4	1	7	0	0	9	2	1	9	2	1	1	0	6	1	4	0
FISCHER 344 RATS FEMALE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
300 MG/KG		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5
		females (cont...)																								
Kidney		+ +																								
Hydronephrosis																										
Nephropathy		1 1																								
Urinary Bladder		+ +																								

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 Page 119





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 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

bis(2-Chloroethoxy)methane

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 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	7	0	6	5	7	7	7	7	1	3	7	2	6	0	6	5	7	7	6	7	2	7	5	7	
	3	3	6	8	9	3	3	3	1	2	7	3	1	3	7	3	4	0	3	7	3	1	3	3	3	
	2	0	6	7	7	0	0	1	4	1	8	1	9	2	1	3	9	7	1	4	0	3	0	5	1	
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>300 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	
																									<b>* TOTALS</b>	
Mixed Cell Focus	X																						X		<b>3</b>	
Necrosis																									<b>1 1.0</b>	
Bile Duct, Hyperplasia				2						3				1				1	1				2	2	<b>12 1.6</b>	
Centrilobular, Necrosis										2	2												2		<b>5 1.8</b>	
Mesentery		+	+																						<b>6</b>	
Fat, Necrosis		3	3							3								3	3				3		<b>6 3.0</b>	
Pancreas		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Inflammation																									<b>1 1.0</b>	
Acinus, Atrophy										2												1			<b>6 1.3</b>	
Duct, Cyst										1															<b>2 1.0</b>	
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Inflammation															3								3		<b>2 3.0</b>	
Ulcer																							2		<b>1 2.0</b>	
Stomach, Glandular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Fibrosis																							2		<b>1 2.0</b>	
Inflammation																									<b>1 3.0</b>	
Mineralization															1										<b>2 1.5</b>	
Ulcer																			2						<b>2 2.5</b>	
Tongue																									<b>1</b>	

**CARDIOVASCULAR SYSTEM**

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 + .. Tissue examined microscopically  
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TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

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bis(2-Chloroethoxy)methane

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 Lab: BAT

DAY ON TEST	0 0																							
	2 7 0 6 5 7 7 7 7 1 3 7 2 6 0 6 5 7 7 6 7 2 7 5 7																							
3 3 6 8 9 3 3 3 1 2 7 3 1 3 7 3 4 0 3 7 3 1 3 3 3																								
2 0 6 7 7 0 0 1 4 1 8 1 9 2 1 3 9 7 1 4 0 3 0 5 1																								
<b>FISCHER 344 RATS FEMALE</b>	0 0																							
<b>300 MG/KG</b>	0 0																							
ANIMAL ID	3 4																							
	7 7 7 7 8 8 8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 0																							
	6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0																							
																								<b>* TOTALS</b>

Blood Vessel	+ +																							<b>50</b>
Heart	+ +																							<b>50</b>
Cardiomyopathy	2 3 2 2 3 1 1 3 1 1 1 1 3 2 1 1 1 1 1 2 1 1 2 2																							<b>46 1.6</b>
Fibrosis	3 3 3 3 3 2 2 3 4 2 3 2 1 3 3 2 2 3 2 2 2 2 1 3																							<b>50 2.3</b>
Myocardium, Infiltration Cellular, Mononuclear Cell	3 3 3 3 3 2 2 3 4 2 3 2 1 3 3 2 2 3 2 2 2 2 1 3																							<b>50 2.3</b>
Myocardium, Necrosis	1 1																							<b>50 1.0</b>
Myocardium, Vacuolization Cytoplasmic	3 3 3 3 3 2 2 3 4 2 3 2 1 3 3 2 2 3 2 2 2 2 1 3																							<b>50 2.3</b>

**ENDOCRINE SYSTEM**

Adrenal Cortex	+ +																							<b>50</b>
Angiectasis																								<b>2 2.0</b>
Hemorrhage																								<b>2 2.5</b>
Hyperplasia	1 3 1 1 1 2 1 2																							<b>14 1.6</b>
Necrosis	3 2 2																							<b>7 2.6</b>
Vacuolization Cytoplasmic	1 1 3 1 1																							<b>15 1.3</b>
Adrenal Medulla	+ +																							<b>50</b>
Hyperplasia	2 2 1 2																							<b>4 1.8</b>
Islets, Pancreatic	+ +																							<b>50</b>
Hyperplasia	1 1																							<b>6 1.0</b>
Parathyroid Gland	+ +																							<b>50</b>

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 Lab: BAT

DAY ON TEST	0 0																								* TOTALS
	2 7 0 6 5 7 7 7 7 1 3 7 2 6 0 6 5 7 7 6 7 2 7 5 7 3 3 6 8 9 3 3 3 1 2 7 3 1 3 7 3 4 0 3 7 3 1 3 3 3 2 0 6 7 7 0 0 1 4 1 8 1 9 2 1 3 9 7 1 4 0 3 0 5 1																								
<b>FISCHER 344 RATS FEMALE</b>	0 0																								
<b>300 MG/KG</b>	0 0																								
ANIMAL ID	3 4 7 7 7 7 8 8 8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 0 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0																								
Pituitary Gland	+ +																								50
Angiectasis	3 2 3 2 2 2 4 4 3 3 2 3 3																								26 2.4
Cyst	1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2																								18 1.4
Hemorrhage	1 1																								1 1.0
Pars Distalis, Hyperplasia	3 3 2 2 3 3 2 3 2 2 3 2 2 3 2 2 3 2 2 3 2 2 3 2																								18 2.3
Thyroid Gland	+ +																								50
C-cell, Hyperplasia	1 1 1 2 1 1 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2																								19 1.2

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Clitoral Gland	+ +																								50
Hyperplasia	2 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1																								3 1.0
Inflammation	1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2																								23 1.4
Ovary	+ +																								50
Cyst	2 2																								5 2.0
Uterus	+ +																								50
Endometrium, Hyperplasia, Cystic	2 1 3																								5 2.0
Vagina	1																								1

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DAY ON TEST		0																						* TOTALS							
		0																													
<b>FISCHER 344 RATS FEMALE</b> <b>300 MG/KG</b>	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		2	7	0	6	5	7	7	7	7	1	3	7	2	6	0	6	5	7	7	6	7	2	7	5	7					
		3	3	6	8	9	3	3	3	1	2	7	3	1	3	7	3	4	0	3	7	3	1	3	3	3					
		2	0	6	7	7	0	0	1	4	1	8	1	9	2	1	3	9	7	1	4	0	3	0	5	1					
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	

**HEMATOPOIETIC SYSTEM**

Bone Marrow Hyperplasia	+ + + A +																						49	3	2.7
Lymph Node																							1		
Lymph Node, Mandibular	M M																						0		
Lymph Node, Mesenteric	+ +																						50		
Spleen Atrophy	+ +																						50	2	2.5
Fibrosis																								1	1.0
Hematopoietic Cell Proliferation	1 1 1 2 1																						26	1.8	
Infarct																							2	1	3.0
Thymus Atrophy	+ +																						49	35	3.3
Hemorrhage	4 4 4 3 3 4 4 3 4 4 3 4 4 4 M 4 2 2 3 4 3																						3	1	3.0

**INTEGUMENTARY SYSTEM**

Mammary Gland Hyperplasia	+ +																						50	2	3.5
------------------------------	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----	---	-----

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TDMS No. 99028 - 05  
 Test Type: CHRONIC  
 Route: SKIN APPLICATION  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 bis(2-Chloroethoxy)methane  
 CAS Number: 111-91-1

Date Report Requested: 11/12/2007  
 Time Report Requested: 14:57:37  
 First Dose M/F: 09/16/02 / 09/17/02  
 Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	7	0	6	5	7	7	7	7	1	3	7	2	6	0	6	5	7	7	6	7	2	7	5	7
	3	3	6	8	9	3	3	3	1	2	7	3	1	3	7	3	4	0	3	7	3	1	3	3	3
	2	0	6	7	7	0	0	1	4	1	8	1	9	2	1	3	9	7	1	4	0	3	0	5	1

**FISCHER 344 RATS FEMALE**

**300 MG/KG**

ANIMAL ID

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4
7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0
6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	<b>* TOTALS</b>

Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>49</b>
Site Of Application - Dermis, Fibrosis																									<b>1 1.0</b>
Site Of Application - Dermis, Inflammation																									<b>2 1.5</b>
Site Of Application - Epidermis, Hyperplasia																									<b>1 2.0</b>
Site Of Application - Epidermis, Ulcer																									<b>1 2.0</b>

**MUSCULOSKELETAL SYSTEM**

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>
Joint, Inflammation																									<b>3 1.3</b>

**NERVOUS SYSTEM**

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>
Hydrocephalus																									<b>5 2.4</b>
Hypothalamus, Compression																									<b>5 2.6</b>
Peripheral Nerve																									<b>1</b>
Spinal Cord																									<b>1</b>

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>
Congestion																									<b>1 3.0</b>

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DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2	7	0	6	5	7	7	7	7	1	3	7	2	6	0	6	5	7	7	6	7	2	7	5	7	7	
	3	3	6	8	9	3	3	3	1	2	7	3	1	3	7	3	4	0	3	7	3	1	3	3	3	3	
	2	0	6	7	7	0	0	1	4	1	8	1	9	2	1	3	9	7	1	4	0	3	0	5	1	1	
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>300 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	0	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	<b>* TOTALS</b>	
Inflammation	2							1				1	1		1			1	1	1			1		1	<b>19 1.1</b>	
Alveolar Epithelium, Hyperplasia				2			2		1					1												<b>6 1.5</b>	
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>49</b>	
Inflammation		1						1									2	2								<b>6 1.3</b>	
Glands, Cyst																							2			<b>1 2.0</b>	
Olfactory Epithelium, Degeneration	2	2	1	3	3	1	3	3	3	2	2	1	2	4	2	4	1	3	3	1	3	2	1	2	3	<b>49 2.3</b>	
Olfactory Epithelium, Metaplasia, Respiratory																		1								<b>1 1.0</b>	
Olfactory Epithelium, Metaplasia, Squamous										1																<b>1 1.0</b>	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
<b>SPECIAL SENSES SYSTEM</b>																											
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>
Cataract			3					3	3																		<b>5 2.8</b>
Retina, Atrophy			3					3	3																		<b>5 3.0</b>
Sclera, Metaplasia, Osseous								2								1				1							<b>4 1.3</b>
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>
Inflammation														1	1							1					<b>10 1.2</b>
Zymbal's Gland																											<b>1</b>
<b>URINARY SYSTEM</b>																											

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2	7	0	6	5	7	7	7	7	1	3	7	2	6	0	6	5	7	7	6	7	2	7	5	7		
3	3	6	8	9	3	3	3	1	2	7	3	1	3	7	3	4	0	3	7	3	1	3	3	3		
2	0	6	7	7	0	0	1	4	1	8	1	9	2	1	3	9	7	1	4	0	3	0	5	1		
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>300 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	0	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hydronephrosis			2																						1 2.0
Nephropathy		2		1	2	1	1	1	1		1	1		2		1		1	1				1	1	25 1.2
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

\*\*\* END OF REPORT \*\*\*

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